Builders' Guide

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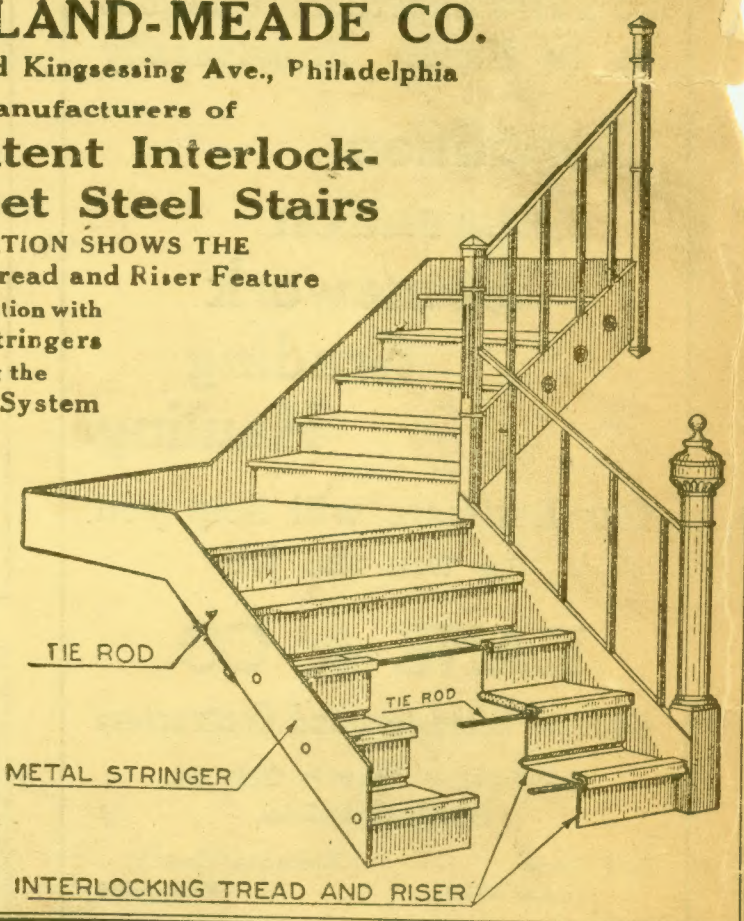
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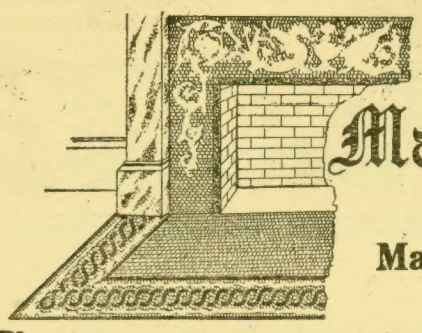
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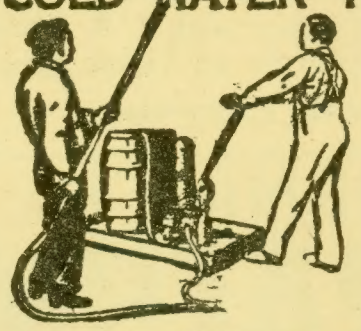
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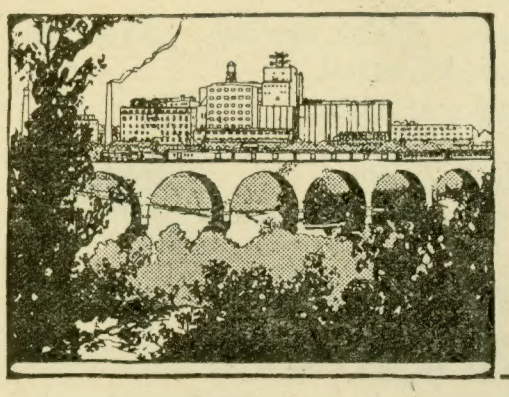
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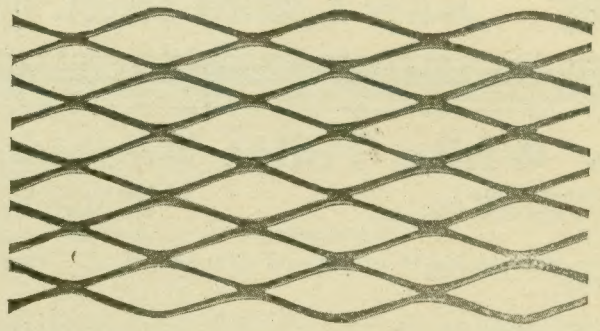
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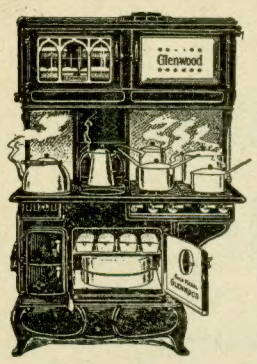
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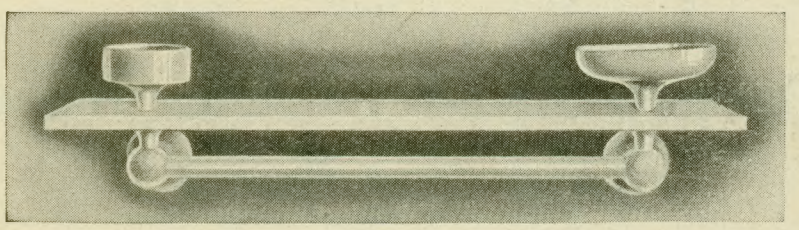
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 1

PHILADELPHIA
January 4, 1922

BUILDERS' GUIDE

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As The Editor Sees It

JOINT CONFERENCE OF ENGINEERS, ARCHITECTS AND CONSTRUCTORS LAUNCH LONG-HOPED-FOR PLAN TO STANDARDIZE CONSTRUCTION CONTRACTS

THE standardization of construction contracts towards which all far-sighted men in the industry have been looking for the last twenty years seems destined to be achieved at last through the united efforts of a "conference held in Washington, D. C., recently.

This conference was composed of delegates appointed by eight national societies representing the engineer, architects and contractors of the United States, and the definite plan adopted was one which would ultimately produce a standard form of contract "agreement" which would be acceptable in all sections of the country and in all phases of this huge industry which now ranks second only to agriculture in national magnitude.

Every constructor and owner who has wrestled with the intricacies of a contract, or worried over the exact, yet doubtful meaning of its many complicated and legalized phrases, will approve this first attempt to frame in simple Anglo-Saxon words an equitable and universal document.

A survey of the situation made several months ago by Brigadier-general R. C. Marshall, Jr., formerly Chief of the Construction Division, U. S. Army, during the world war, disclosed the fact that today there are in common use throughout the construction industry, *over* 200 *different forms of contract,* and that no one state or section had yet been able to establish any one form as standard or customary.

Expert engineers at the headquarters of the Associated General Contractors of America in Washington, were then assigned to the task of analyzing these 200 different forms in order to discover whether the variety of "jobs" involved required any such variety of forms.

After many months of painstaking comparison and research, W. P. Christie, in charge of this work as research engineer for the Associated General Contractors reported that the differences were chiefly superficial differences of words and phraseing rather than differences of meaning or stipulations, and that at least two-thirds of all the provisions contained in each of the 200 documents were common to all documents, and therefor could be included *in one standard contract form,* if rewritten in simple universal style.

It was found that stipulations which were characteristic or peculiar to the building trades, or to the railroad construction field, or to waterwork projects, or to highways could be assembled together in one standard form, entitled "general conditions," applicable to that one field of construction only, and added to the standard agreement form as addenda.

In this way, it would be quite possible to draft a STANDARD CONTRACT which would cover all cases of construction work, no matter in what field, and the only alteration that would ever need to be made to it, would be in selecting the standard form of "General Conditions" which covered the type of job concerned. Experts believed that a half dozen such forms would cover the main subdivisions involved in the construction industry.

This plan together with a "tentative outline" was submitted for consideration to the—

American Association of State Highway Officials.
American Engineering Council.
American Institute of Architects.
American Railway Engineering Association.

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American Society of Civil Engineers.
American Waterworks Association.
Associated General Contractors of America.
National Association of Builders' Exchange.
Western Society of Engineers.

All made favorable responses and appointed representatives to come to Washington to constitute a confernce on the subject and proceed with the drafting of a tentative form of contract which could later be officially submitted by the conference to its constituting bodies for criticism, amendments, and ultimate ratification.

The conference met in the assembly room of the Department of Commerce building, in Washington, Dec. 15 and 16, and was addressed by Secretary of Commerce Hoover and General Marshall, both of whom expressed a very lively and sincere hope that the conference would ultimately devise a form which would become as standard in its field as the standard forms of bank checks, notes and mortgages are in the field of banking and commercial trade.

Secretary of Commerce Hoover, said, in opening the conference:

"Well, gentlemen, this conference is to consider whether something can be done to standardize or simplify or reinforce or generally improve the whole basis of contract forms used in the construction industry.

"I believe there is a great field there not only in protection to the public but in the general improvement of ethics in the industry itself. I don't profess to know much about it, but it is a matter that has not come under my purview for some years. I have been too much out of the engineering work for the last seven years to give much thought to it.

"I know that the time I was in engineering work, this whole variation and specification of the contract basis for construction work of all kinds was an outstanding sore, and I have been in hopes that it was possible to do something. It all comes in line with the things many of us are much concerned with, and that is fundamentally the elimination of waste, lost motion, improvement of business practices throughout the whole United States.

"We have to remember that we have now an enlarged and inflated cost of distribution primarily, rather than production, and that we have a disparity due to the fundamentals of the increase in Federal taxation and railway rates that are making a wider margin between production and final distribution costs than we have ever had to face before, and unless we can crowd tha margin down somewhat by just sheer increase in efficiency, we are not going to be able to hold up the standard of living in this country and hold up our competitive position outside. So this is one of those things that ramify in many directions.

"I now therefore leave it to you, and we are glad to have you come to this Department, because we have started a definite program along all these lines, not from a point of view of trying to compel anybody to do anything, but trying to mobilize all the different branches of industry for co-operative action, and while you can do much to get this thing straightened out, it is probable that the Department of Commerce could be of moral assistance to you in getting it over when you have once arrived at some conclusions, and we will be delighted to back up anything that you come to an agreement on, and I have been astonished at the desire of the different industries to effect these things in every direction and their willingness to co-operate with other industries to make the work of each individual industry effective.

"We had the case the other day of the simplification of certain manufactured articles. The great majority of the manufacturers were represented here, but claimed that some minority would not help. hey could not do anything without the assistance of other branches, and therefor, I called in both the wholesalers and retailers in those directions and asked them if they would co-operate, and they have co-operated so far as to almost set up a boycott against certain manufacturers because they would not fall into line with the great majority, and they did it purely out of national interest.

"Somebody somewhere has got to eliminate the waste in this whole situation. I only mention that as a point where this Department can be of help in getting the allegiance of the related industries and trades, and help you to get over some program of this kind.

"So that all I am doing is to give you our blessing and to tell you that the Department of Commerce is yours. Go to it. (Applause.)

"Now it is up to you, I think, and if there is anything in the Department by which we can be of help, statistical or otherwise, *do not hesitate to call on us.*"

The aim of the conference in beginning work on this difficult task was to achieve the following advantages for the entire construction industry and all its affiliations:

(1) Less expenditure and legal service.
(2) Less duplication of work in the professions.
(3) Elimination of disputes.
(4) Better safeguard for owners and increased public confidence.

(Continued on Page 14)

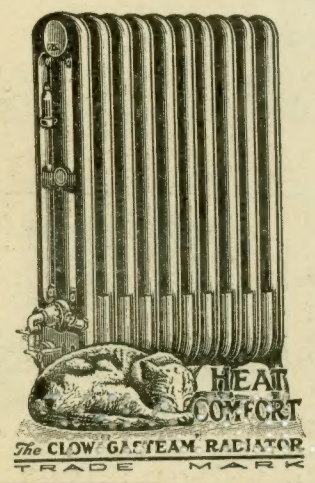


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Residences (17), North side of Cobb's Creek Boulevard, between Sixty-first and Sixty-second streets. Architect, private plans. Owner, Charles Armstrong, 6006 Cobb's Creek Boulevard, Philadelphia. Brick and stone, 2 stories, 20x60 feet, garage in basement, slate and slag roof, hardwood floors, hot water heating, electric lighting, tile work, cement work. Owner is ready for sub-bids.

Residences (20) and **Store**, Logan, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Jacob M. Faust, 4611 North Broad street, Philadelphia. Brick, 2 stories, 16x42 feet 6 inches, slag and slate roof, oak floors, hot water heating, electric lighting, tile and marble work. Owner is ready for sub-bids.

Residences (25), Lawrence street above Olney avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John M. Snyder, builder. Brick, 2 stories, 16x32 feet, 15 feet 8 inches x 40 feet, and 18x50 feet, slag and slate roof, oak floors, hot water heating, electric lighting, tile and marble work. Plans about completed. Owner will take sub-bids.

Shop, 1506 Wood street, Philadelphia, $5,375. Architect, private plans. Owner, R. T. Alford, Northeast Corner Fifteenth and Wood streets, Philadelphia. Brick, 2 stories, 15x43 feet, slag roof, pine floors, electric lighting. Contract awarded to L. B. Gordy, 228 Patterson street, Chester, Pa.

Store and Apartment Building, Fifty-fourth and City Line, Philadelphia, $400,000. Architect, private plans. Owner, T. F. Reilly, Overbrook and Bryn Mawr avenues, Philadelphia. Brick, steel, stone and terra cotta, 3 stories and basement, size of lot 439x150 feet, electric lighting, steam heating, tile and marble work. Plans in progress. Too early for details.

Ferry House and Wharf, Delaware River, Lardner's Point, Philadelphia. Engineer, John Meigs, 1211 Walnut street, Philadelphia. Owners, Tacony & Palmyra Ferry Co., care of George T. Sale, Liberty Building, Philadelphia. Frame and timber, pile foundations, ferry house, 1 story. Plans in progress. Engineer will take bids in a month.

Residence and Garage, Crittenden street and Roumfort avenue, Mt. Airy, Philadelphia. Architect, Jesse T. Hoekstra, 1713 Sansom street, Philadelphia. Owner, name withheld. Stone, 3 stories, 26x58 feet, and 1 story, 20x22 feet, slate roof, cement work, oak floors, hot water heating, electric light, tile work, structural steel. Plans in progress. Architect will be ready for bids in two weeks.

Residence, Cresheim Valley road and Stenton avenue, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, name withheld. Stone, 2 stories, 30x50 feet, slate roof, hot water heating, electric lighting, tile and marble work. Plans in progress.

Residences and Stores (6), Frankford, Philadelphia. Architect, Benjamin Brown, Denckla Building, Philadelphia. Owner, name withheld. Brick, 2 stories and basement, 16x60 feet, slag roof, electric lighting, bulks, tile work. Plans in progress. Will be ready for bids in two weeks.

Store and Residence, Fifth and York streets, Philadelphia. Architect, Benjamin Brown, Denckla Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 16x69 feet, slag roof, hot water heating, electric lighting, oak and pine floors. Plans in progress. Will be ready for bids in two weeks.

Hot Water Piping, Mint Building, Seventeenth and Spring Garden streets, Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. New hot water piping. Owners taking bids due January 12th at 3 P. M. Plans and specifications may be secured from architect or custodian of site.

Power Plant (completion), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, United States Government, care of Constructing Quartermaster, Frankford Arsenal, Philadelphia. Completion of power plant, including equipment installation. Owners taking bids due February 3rd at 2 P. M. Deposit required, $10.00.

Church, Third and Wolf streets, Philadelphia. Architect, Charles J. Mitchell, 129 South Fifth street, Philadelphia. Owners, Our Lady of Mt. Carmel Church, care of Rev. John J. Wheeler, on premises. Stone and steel, 1 story, 131x52 feet, slate roof, tile floors, steam heat, electric light, metal lath, ornamental iron work. Architect taking bids due January 15th. Thomas Reilly, 1616 Thompson street; Edward Fay & Son, 2 South Mole street; E. E. Hollenback, Inc., 1804 Brandywine street; Pierce Henon Co., Juniper and Pine streets; M. Melody & Son, 1322 Race street, and Thomas C. Trafford, 1613 Sansom street, are figuring.

Demolition and Removal of Buildings from Delaware avenue, Race street, Front street and Summer street, except 228 North Delaware avenue and 225 North Water street. Architect, private plans. Owners, The Delaware River Bridge Joint Commission, William C. Sproul, Chairman, and Joseph K. Costello, Secretary, Widener Building, Philadelphia. Owners taking bids due January 11th at 3 P. M. Jump House Wrecking Co. of Pennsylvania, Forty-third and Baltimore avenue, Philadelphia, are figuring.

Residence, West School Lane, Germantown, Philadelphia. Architect, John C. Molitor, 125 W. Chelten ave., Germantown, Philadelphia. Owner, name withheld. Frame and plaster, 2½ stories, irregular size, slate roof, oak and pine floors, waterproofing, iron work, tile and marble work, demolition (heating and electric work reserved). Architect taking bids due January 6th. H. E. Baton, 1713 Sansom street, and Samuel Harting, 20 East Johnson street; F. W. Van Loon, Perry Building; H. A. Burrell, 206 South Quince street; Brown Cons. Co., 6127 Ridge avenue, are figuring.

School, Thompson and Madison streets, Philadelphia. Architect, Louis H. Giele, 1123 Broadway, New York City. Owners, St. Adalbert's Church, care of Rev. Monkiewicz, 2645 East Allegheny avenue, Philadelphia. Brick,

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granite and steel, 3 stories and basement, 140x63 feet, slag roof, oak and pine floors, metal lath, terra cotta, iron work and stairs, Bonds. Owner taking bids due January 20th. Penn Const. & Eng. Co., 3840 Spring Garden street, Philadelphia; Anthony Ziernicke, 4713 Germantown avenue; William F. Newbery Co., Otis Building; William R. Dougherty, 1610 Sansom street; John McShain, 1610 North street; J. Krukowski, 2662 East Allegheny avenue, and Pierce Henon Co., Juniper and Pine streets, are figuring.

Store and Apartment, Lawndale, Philadelphia. Architect, Christian H. Fries, 8327 D street, Fox Chase, Philadelphia. Owner, A. H. Martin, care of architect. Brick and steel, 2 stories, 50x69 feet, slag roof, oak and pine floors, hot water heat, electric light, tile and marble work, metal ceilings and bulks, iron work. Architect taking bids due January 5th. E. Allen Reeves, Abington, Pa., and W. John Stevens, Inc., Wyncote, Pa.; P. A. Waltz, Inc., 6610 North Seventh street; Jos. Ashby, Second street Pike, Fox Chase, Philadelphia; Rush Bros., 1016 Harrison street; Economy Cont. and Builders, 320 Huntingdon street, Fox Chase; George Krewson, Chelten avenue, Fox Chase, and Garthly Bros., Lawndale, Philadelphia.

Belmont Pumping Station (general const. and foundations). Owners, Bureau of Water, Department of Public Works, care of Frank H. Caven, Director, 216 City Hall, Philadelphia. Brick, concrete and steel work, asbestos protected roof, plastering, lockers. Owners taking bids due January 6th at noon. Nelson Pedley Const. Co., Inc., 1615 Spruce street; Mitchell Houseworth Co., 2935 West Lehigh avenue; Edward Fay & Son, 2 South Mole street, and Robbins Cont. Co. ,1137 North Front street, figuring.

Euipment on Sub-Stations, Cont. 637, Philadelphia. Cumberland street, East of Kensington avenue, and Griscom and Arrott streets. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Lowest bidder: W. V. Pangborn & Co., 1927 Montgomery avenue, $83,482.90.

Residences and Garages (10), Cedar avenue and Felton street. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Bobb & Steinman, care of Harry Bobb, 3038 East Agate street. Brick, 2 stories, 15x48 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work, plumbing. Owners taking sub-bids.

Church, 3212 Van Kirk street, Philadelphia, $4,000. Architect, private plans. Owners, Mennonite Brethren in Christ, on premises. Brick, 2 stories, 42x60 feet, slag roof, yellow pine floors, steam heat ,electric light. Owner will build.

Stable, North Side Summer street, West of Fifty-first street, Philadelphia, $4,000. Architect, private plans. Owner, Edward A. Mullin, 5512 Vine street, Philadelphia. Brick, 1 story, 30x120 feet, slag roof, electric lighting. Owner will build.

Apartment House, 1838 North Sixteenth street, Philadelphia, $2,500. Architect, private plans. Owner, William H. Good, Land Title Building, Philadelphia. General interior alterations, carpentry, mill work, plumbing, painting. Owner will build.

Rooming House (alts. and add.), Northeast Corner Sixteenth and Green streets, $2,000. Architect, private plans. Owners, Carr, Courtney & Tregle, Twenty-third and Green streets, Philadelphia. Brick, 2 stories, 4x10 feet 2 inches, tin roof, pine floors, electric lighting, general interior alterations. Owners will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Hospital, Powelton and Saunders avenues, Philadelphia, $400,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Presbyterian Hospital, on premises. Brick, cut stone and steel, 5 stories, 201x80 feet, slag roof, cement and maple floors, hollow tile, metal lath, waterproofing, iron work, demolition, cold storage, insulation, Bond, tile and terrazzo work; limestone stone foundations (heating, electric work and plumbing and elevators reserved). Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

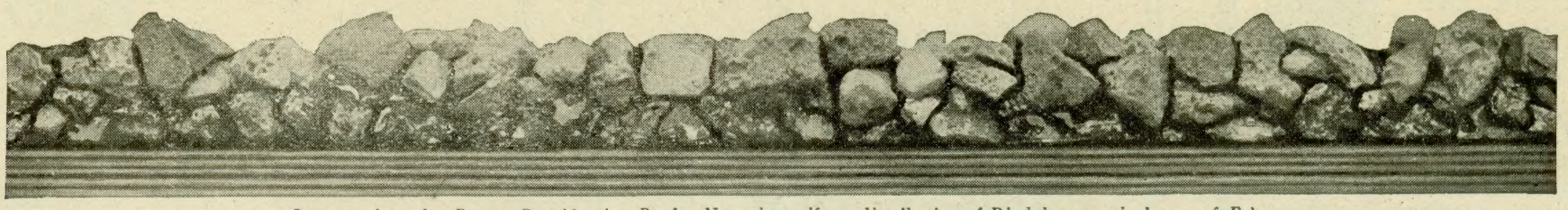
Store and Apartments, Northeast Corner Fourth and Gaskill streets, $10,000. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, name withheld. Brick and steel, 3 stories, 22x90 feet, slag roof, composition floors, hot water heat, electric lighting, tile and marble work, metal lath, dumb waiter, hollow metal skylights, metal ceilings, ornamental iron work. Contract awarded to B. & L. Const. Co., 705 Pierce street, Philadelphia.

New Social Hall (alts. and add.) to Club House, 6937 Ridge avenue. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Green Valley Realty Co., premises. Brick, cut stone and stucco, 1 story, 94x50 feet, Carey flexible cement roof, maple and cement floors, tile and marble work, metal lath, hollow metal sash and skylights, kalamein doors, Bond, roof ventilators, metal ceilings, water and dampproofing (plumbing, heating and electric work reserved. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Building, 259-61 South Fifteenth street, Philadelphia, $25,000. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, Lionel Friedman, Land Title Building, Philadelphia. Brick and steel, 3 stories, 32x60 feet, slag roof, pine floors, metal lath, iron work, steam heating, electric lighting, tile and marble work. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Residence, Carpenter and Emlen streets, Germantown ,Philadelphia. Architect, private plans. Owners, Pennsylvania Eng. Co., Lee Nusbaum, 1119 North Howard street, Philadelphia. Hollow tile and stucco, 2½ stories, 52x50 feet, slate roof, oak floors, pine floors, electric lighting, hot water heat. Con-

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Cross-section of a Barrett Specification Roof. Note the uniform distribution of Pitch between the layers of Felt.

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The Barrett Specification Roof for flat- or nearly flat-roofed buildings, consists of several alternate layers of Specification Pitch and Specification Felt, with a surface covering of gravel or slag. These materials are used because 60 years' experience has proved—

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—that no other kind of felt has the lasting tensile strength of this carefully selected felt;

—that no other surfacing material renders a roof so highly fire-resistant as gravel or slag which serves the further purpose of holding in place the extra-thick *poured* top coat of Barrett Specification Pitch.



The concrete roof-deck is heavily mopped with a uniform coating of Barrett Specification Pitch.



Right: Laying the Barrett Specification Tarred Felt on the pitch seal coat. Four plies with pitch in between are laid over the entire roof surface, each ply overlapping three-fourths of the preceding ply.

Left: Mopping on the Barrett Specification Pitch. Each layer of felt is hermetically sealed to the adjoining layer by the pitch waterproofing. In no spot do the layers touch each other.



Below: Pouring final coat of hot Barrett Specification Pitch and embedding thick wearing surface of gravel or slag after entire roof has received four plies of felt and pitch.



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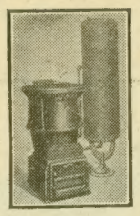
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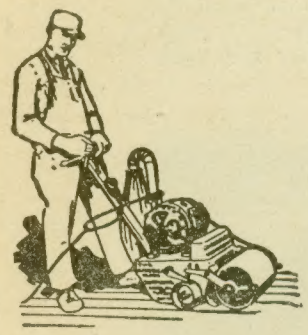
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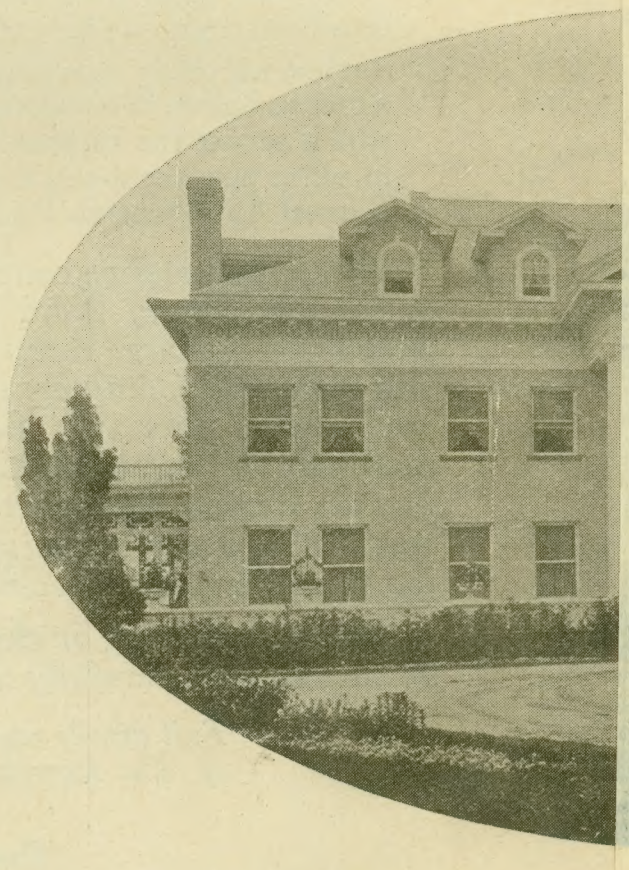


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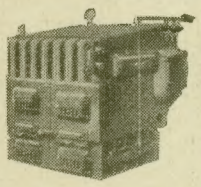
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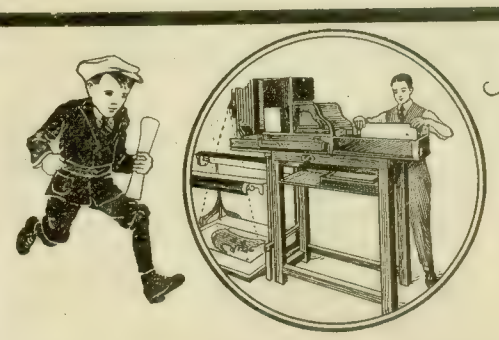
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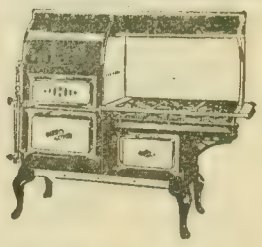
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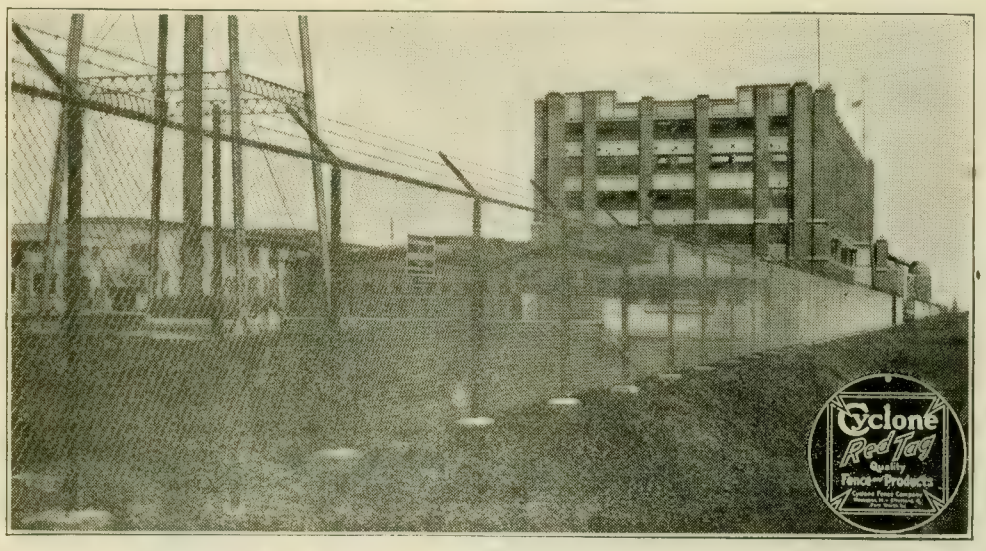


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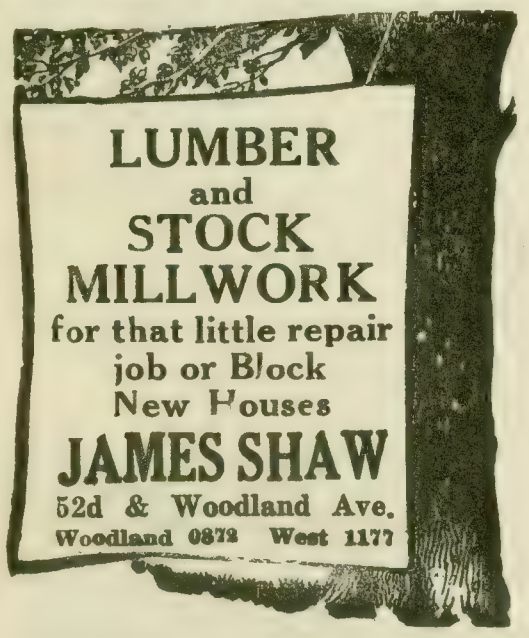
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tract awarded to George B. Lockhard, Weightman Building, Philadelphia.

Enclosure, second floor, 925 Chestnut street, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, Federal Reserve Bank, on premises. Partitions, carpentry and mill work. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Warehouse, East side American street, South of Sedgley avenue, $13,000. Architect, private plans. Owners, The Allen Iron & Steel Co., Third and Venango streets, Philadelphia. Brick and steel, 2 stories, 40x91x108 feet, slag roof, maple floors, steel sash. Contract awarded to The Austin Co., Bulletin Building, Philadelphia.

Shop and (5) Garages, 2514-18 West Dauphin street, Philadelphia, $8,550. Architect, private plans. Owner, J. Meyers, 2442 Glenwood avenue, Philadelphia. Brick and steel, 1 story, 63x120 feet, slag roof, cement and pine floors, hot water heat, electric lighting. Contract awarded to George P. Clayton, 1817 North Twentieth street, Philadelphia.

Club (add.), Southwest Corner City Line and Conshohocken avenue, $8,000. Architect, private plans. Owners, Bala Golf Club, on premises. Stone, 1 story, 40x50 feet, tin roofing, maple floors, hot water heating, electric lighting. Contract awarded to Turnbull & Cornell, 20 South Eighteenth street, Philadelphia.

Store (fire repairs), 903-05-07 Market street, $5,000. Architect, private plans. Owner, N. Snellenburg, Twelfth and Market streets, Philadelphia. General interior alterations, slag roof, plastering, carpentry, mill work. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Garage, St. Martin's lane and Hartwell lane, Germantown, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, I. J. Williams, Morris Building, Philadelphia. Stone, 1½ stories, 29x40 feet, slate roof, cement floors, hot water heating, electric lighting. Contract awarded to Wolverton & Son, 222 East Willow Grove avenue.

Building (add.), Southeast Corner Fifteenth and Dickinson streets, $3,000. Architect, private plans. Owner, C. A. Cilcone, on premises. Brick, 1 story, 16x18 feet, slag roof, yellow pine floors. Contract awarded to N. Connoe, 3029 North Twenty-second street, Philadelphia.

Garage, Northwest Corner Mermaid lane and Crefeldt street, $3,000. Owner, H. Cooper Johnson, on premises. Stone, 1 story, 23x26 feet, slate roof, cement floors, hot water heat. Contract awarded to Ralph C. Borthwick, 8018 Germantown avenue.

Residences (10) **(add.)**, 2507 to 2519-2527-37-43 South Seventh street. Architect, private plans. Owner, Abraham Austin, 215 South Fifteenth street, Philadelphia. Brick, 1 story, 11x9 feet, tin roof, yellow pine floors, electric lighting. Contract awarded to A. Sonnenfeld ,287 South Sixty-third street, Philadelphia.

Office, Large and Orthodox streets, Philadelphia, $2,500. Architect, private plans. Owners, William B. Horrocks, Orthodox street and P. and R. R. R., Philadelphia. Brick and steel, 1 story, 22x50 feet, slag roof, pine floors, hot water heating, electric lighting. Contract awarded to F. Crompton & Brother, 4614 Oakland street, Philadelphia.

Residence and Store (add.), 1435 South Fifty-eighth street, Philadelphia, $2,200. Architect, private plans. Owner, Sol Hersch, on premises. Brick, 1 story, 16x12 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to N. Litman, 1925 North Fifty-second street, Philadelphia.

Building (alts.), Southeast Corner Broad and Chestnut streets, $2,000. Engineer, Frank E. Roberts & Co., Real Estate Trust Building, Philadelphia. Owners, Real Estate Trust Co., on premises. New mezzanine floor, steel and concrete work. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Residences (2) **(add.)**, 1033-35 Carpenter street, $2,000. Architect, private plans. Owner, Malleo Salano, 1033 Carpenter street, Philadelphia. Brick, 3rd story addition, 11x10 feet, slag roof, yellow pine floors. Contract awarded to M. De Gregorio, 1011 Carpenter street, Philadelphia.

Garage, 1013 Seventieth avenue, Philadelphia, $2,000. Architect, private plans. Owner, E. G. Sprowles, on premises. Brick, 1 story, 14x23 feet, slag roof, cement floors, electric lighting. Contract awarded to F. A. Schreiber 1306 City Line, Philadelphia.

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Theatre (alts.), 3941 Market street, Philadelphia, $2,000. Architect, private plans. Owners, Eureka Theatre, on premises, N. Pearlman, proprietor. Concrete and steel, two organ lofts and balcony. Contract awarded to Frederick Massiah, 1342 Cypress street.

PENNSYLVANIA
Construction News

Residence and Garage, Ardmore, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Ralph A. Land, 1513 Walnut street, Philadelphia. Stone, 2½ stories, 45x50 feet, slate roof, oak and maple floors, hot water heating, electric lighting, tile work. Architect taking bids due as soon as possible. J. Howard Roberts, Lansdowne, Pa.; Leedom Brothers, 5313 Webster street, and Turnbull & Cornell, 20 South Eighteenth street, Philadelphia, and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Y. M. C. A. Building, Airey street, near DeKalb street, Norristown, Pa., $350,000. Associate architects, Harry G. McMurtrie, 1012 Walnut street, Philadelphia, and Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owners, Y. M. C. A., Norristown, Pa. Brick, stone and steel. Preliminary sketches drawn. Too early for details.

High School (add.), Oakmont, Pa., $300,000. Architects, Boyd, Gugert & Abel, Otis Bldg., Philadelphia. Owners, Haverford Township, care of J. W. Huff, secretary, 6035 Lansdowne avenue, Philadelphia. Stone. Plans in progress. Will take bids about March 1st.

Residence, Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Thomas M. Longcope, Franklin Building, Philadelphia. Brick, 2½ stories, 25x38 feet, shingle roof, pine floors, hot air heat, electric light, tile, marble and iron work. Owner taking bids due January 5th. George H. Evans, Inc., 119 North Thirteenth street, Philadelphia, is figuring.

Church, Sunday School and Parsonage, Stroudsburg, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, East Stroudsburg Methodist Episcopal Church, Stroudsburg, Pa. Brick, 1 story and basement. Too early for details.

Factory, Hazleton, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Liebovitz & Sons, Inc., care of architect. Brick, factory construction, 2 stories, 150x75 feet and 22x35 feet, Johns Manville roof, plank floors, steam heat, electric light, rolled steel sash, fire doors, freight elevators. Architect will take bids in one week.

Church, Front and Windsor streets, Reading, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Windsor Methodist Episcopal Congregation, Rev. H. R. Hoffman, on premises. Stone, 1 story, basement and gallery, 50x70 feet, slate roof, maple, cork and tile floors (steam heating reserved), electric light, tile work, metal lath. Will take revised bids January 10th.

Club House (alts. and add.), Llanerch, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, Llanerch Country Club, Upper Darby P. O., Pa. Stone, 2 stories. Preliminary plans in progress. Too early for details.

Club House, Brookline, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Brookline Square Club, William R. Emerick, president, Brookline, Pa. Stone. Preliminary sketches drawn.

Telephone Exchange (alts. and add.), Easton, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. General alterations. Plans in progress. Too early for details.

Church and Sunday School Building, Greencastle, Pa., $75,000. Architect, George Baum, 1511 Arch street, Philadelphia. Owners, United Evangelical Church, care of Rev. H. D. Burkhelder, Citizens' National Bank, Greencastle, Pa. Brick, 1 story. Preliminary plans in progress.

Church (alts. and add.), Scranton, Pa. Architect, D. A. Morgan, Connell Building, Scranton, Pa. Owners, St. Paul's Evangelical Church, care of architect. General inte-

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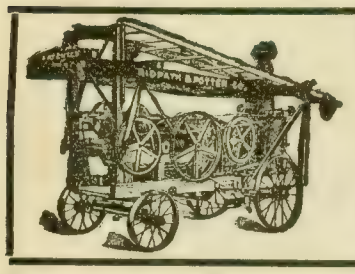
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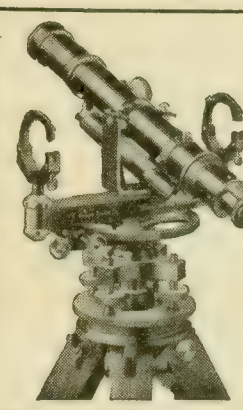
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rior alterations. Plans in progress.

Residence, Delaware avenue, Olyphant, Pa. Architects, Morris & McHale, Mears Bldg., Scranton, Pa. Owner, M. F. Cannon, 101 South Valley avenue, Olyphant, Pa. Frame, stucco, 2½ stories, 28x38 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Drill Shed, Ridge avenue, Milton, Pa. Architects, W. G. Wilkins Co., Pittsburgh, Pa. Owners, Pennsylvania National Guards, Milton, Pa. Brick and steel, 1 story, 81x63 feet, built-up and slate roof, maple floors. Architects taking bids due January 10th. Metzger & Fisher, Otis Building, Philadelphia, are figuring.

Store (alts. and add.), York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, H. Westley & Co., York, Pa. Brick, 3 stories, 20x100 feet, composition roof, maple floors, electric lighting, rolled steel sash, metal ceilings, waterproofing, dampproofing. Plans in progress.

Residence, Olyphant, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owner, W. J. Lynott, Olyphant, Pa. Brick, 2½ stories ,32x34 feet, slag roof, hardwood floors steam heat, electric light, tile work. Plans in progress.

Store and Apartment, Pittston, Pa. Architects, Russoniello & Price, Scranton Life Building, Scranton, Pa. Owner, R. Antonello, 10 Spring Valley, Pittston, Pa. Brick, 2 stories, 55x37 feet, slag roof, hardwood floors, steam heat, electric light, copper work, plate glass, metal ceilings, iron stairs. Plans in progress.

Central High School (add.), Scranton, Pa., $500,000. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, School Board of Scranton, Mr. Hughes, secretary, Scranton, Pa. Stone, brick, 3 stories and basement. Too early for details.

Store, Adams avenue, Scranton, Pa. Architects, C. H. Davis and G. Lewis, Union Bank Building, Scranton, Pa. Owners, Stoehr & Fisher, 121 North Washington avenue, Scranton, Pa. Steel, reinforced concrete, 6 stories, 87x140 feet, slag roof, hardwood floors, electric light, tile work, hollow metal skylights, metal lath, elevators, roof ventilators. Plans in progress.

Store and Office, Adams avenue, Scranton, Pa. Architects, Davis & Lewis, Union Bank Building, Scranton, Pa. Owner, W. Rehri, care of architect. Brick, stone, fireproof, 10 stories, 40x140 feet, slag roof. Plans in progress.

Bank (alts. and add.), Honesdale, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, Dime Bank of Honesdale, Mr. Wright, Honesdale, Pa. Limestone, brick, 1 story, 50x65 feet, tin roof, marble work, electric light, metal lath, metal window guards, marble work, bank fixtures, interior alterations. Owner will take bids January 15th.

Bank, Danville, Pa., $75,000. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, First National Bank, Danville, Pa. Brick, limestone, 1 story, 40x85 feet, slag roof, marble work, tile work, hollow tile, electric light, rolled steel sash and skylights, roof ventilators, metal window guards, bank fixtures. Owner will take bids January 15th.

Residences (2), Scranton, Pa. Architect, D. A. Morgan, Connell Building, Scranton, Pa. Owners, Hillcrest Apartment Co., Scranton, Pa. Frame and stucco, 2½ stories, 26x50 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Owner will sublet.

Homestead (alts. and add.), Scranton, Pa. Architect, D. A. Morgan, Connell Building, Scranton, Pa. Owners, Hillcrest Apartment Co., Scranton, Pa. New plumbing, steam heat, electric light, hardwood floors, metal lath, tile work. Owner will sublet.

Apartment (8), Scranton, Pa. Architect, D. A. Morgan, Connell Building, Scranton, Pa. Owner, F. E. Markle, Union Bank Building, Scranton, Pa. Frame and stucco, 2 stories and basement, 26x46 feet, shingle roof, hardwood floors, steam heat, electric light. Owner will build.

Hospital, Surgical Building and Robert H. Crozer Hospital, 94 Penn street, Chester, Pa. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Chester Hospital, Chester, Pa. Brick, steel and cut stone, slag and promenade tile roof, cement and composition floors, hollow tile, metal lath, safety treads, roof ventilators, metal weather strip, waterproofing, architectural terra cotta, iron work and stairs, floor hard-

ener, Bond, rolled steel shutters, fire, kalamein and steel tube doors, copper skylights, sheet metal sash, tile, terrazzo and marble work, demolition (plumbing, electric work, heating and elevators reserved). Architect taking bids due January 16th. William Provost, Jr., Chester, Pa.; Chester Const. & Cont. Co., Chester, Pa.; Barclay White Co., 1713 Sansom street; Robert E. Lamb Co., 843 North Nineteenth street; Wark Co., 231 South Broad street, and H. E. Baton, 1713 Sansom street, Philadelphia, are figuring.

Bank, Oley, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, First National Bank of Oley, J. M. Bertolet, president, Oley, Pa. Stone and terra cotta, 1 story and basement, 32x58 feet, Johns Manville roof, tile and reinforced concrete floors (heating, electric work and plumbing reserved), tile and marble work, metal window guards, bank fixtures, ornamental iron work. Architect taking bids due January 6th. Sharp Const. Co., 22 North Fifth street; Beard Const. Co., 658 Penn street; C. H. Schlegel, 2250 Perkiomen avenue; L. H. Focht & Son, Baer Building; D. H. Hunter, 820 North Eleventh street, and George Menholtz, all of Reading, Pa.; A. Hoffman, Fleetwood, Pa.; Ochs Const. Co., Allentown, Pa.; J. G. Keen, Oley, Pa., and F. H. Keyser & Co., Pottstown, Pa., are figuring.

Bank (alts. and add.), Forest City, Pa. Architects, Russoniello & Price, Scranton Life Building, Scranton, Pa. Owners, First National Bank, Forest City, Pa. Brick, concrete, 2 stories, 35x20 feet, concrete roof, concrete floors and marble floors, hot water heat, electric light, general interior alterations, waterproofing, ornamental iron work. Owner will build.

Store Front (add.), location withheld. Architect, H. A. Mauer, Coal Exchange Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, 1 story, slag roof, maple floors, electric light, rolled steel skylights. Too early for details.

Garage and Sales Room, Dallas, Pa. Architects, Schroder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Stone, steel, stucco, 2 stories, 40x60 feet, slag roof, concrete floors, steam heat, electric light. Plans in progress.

Warehouse Wilkes-Barre, Pa. Architect, H. A. Mauer, Coal Exchange Building, Wilkes-Barre, Pa. Owner, name withheld. Slow burning, mill construction, brick, 5 stories, 40x80 feet, slag roof, pine floors, electric light, freight elevators, fire doors, waterproofing dampproofing, iron stairs. Plans in progress.

Stores and Apartment (alts. and add.), 135 South Washington street. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick, 2 stories, 30x30 feet, slag roof, oak floors, steam heat, tile work, electric light, plate glass, ornamental iron work. Plans in progress.

Apartment, West Market street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, J. J. Becker, on premises. General interior alterations, oak floors, electric light, tile and marble work. Plans in progress.

Double Residence, West River street, Wilkes-Barre, Pa. Architect, F. J. Mack, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Mr. Charles Weisman, 2 Terrace street, Wilkes-Barre, Pa. Tile and stucco, 2 stories, 60x40 feet, concrete foundations, tile roof, hardwood floors, steam heat, electric light, tile work. Owner will take bids next week.

Bridge, over Schuylkill River, between Royersford and Spring City, Montgomery County, Pa. Owners, Montgomery County, care of Horace W. Smedley, Norristown, Pa. Reinforced concrete, 3 span. Owners taking bids due January 16th at 11 A. M.

Pennsylvania Contracts Awarded

Foundations, Maiden Creek Boiler House, Cont. No. 12, Reading, Pa. Consulting engineer, Louis T. Klauder, Pennsylvania Building, Philadelphia. Chief engineer, Emil L. Neubling, Bureau of Water, Reading, Pa. Owners, City of Reading, Department of Parks and Public Property, Bureau of Water, D. E. Dampman, superintendent, Reading, Pa. Concrete, stone and steel, 99x54 feet, safety treads, Bond. Contract awarded to Bader Const. Co., Colonial Trust Building, Reading, Pa.

Factory, Annville, Pa., $41,000. Architect, Harvey Hauer, Lebanon, Pa. Owners, Greib Shoe Co., Annville, Pa. Brick slow burning 4 stories, 178x41 feet, slag roof, maple floors, rolled steel sash, fire doors, ornamental iron work. Contract awarded to D. L. Saylor, Annville, Pa. (Heating, electric work, elevator and plumbing reserved.)

Residence (alts.), Bywood, Pa., $3,500. Architect, Frank V. Nickels, 228 South Sydenham street, Philadelphia. Owner, Mrs. E. M. Merry, Bywood, Pa. Shingle roof, copper work, plastering, painting, glazing, pine floors, electric work. Contract awarded to George W. Wagoner, 274 South Twentieth street, Philadelphia.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, care of Lewis S. Sadler, Commissioner, State Capitol, Harrisburg, Pa. Lackawanna County, Route 174, Fell and Greenfield Townships. Contract awarded to Continental Contracting Company, Baltimore, Md., $193,174.25.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, care of Lewis S. Sadler, Commissioner, Capitol Buiidlng, Harrisburg, Pa. Clearfield-Indiana Counties, Route 262, Burnside, Montgomery and Banks Townships and Glen Campbell Borough. Contract awarded to Anderson Const. Co., Parnassus, Pa.

Store (alts.), 820 North Main street, Wilkes-Barre, Pa. Architect, H. A. Mauer, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Engle Brothers, on premises. Steel work, plate glass, hardwood floors, electric light, tile work, rolled steel sash. Contract awarded to A. D. Thomas, Wilkes-Barre, Pa.

Residence (alts. and add.), Hazel street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame, 2 stories, 20x30 feet, shingle roof, oak floors, steam heat, electric light, plumbing, general interior work. Contract awarded to A. D. Thomas, Wilkes-Barre, Pa.

Church (alts.), Scranton, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Holy Rosary Church, Rev. N. J. McManus, Scranton, Pa. Art glass, exterior alterations, stucco work, electric light, stone steps. Contract awarded to Giblon & Perry Building Co., Scranton, Pa.

New Jersey Construction News

Ferry House and Wharf, Delaware River, Palmyra, N. J. Engineer, John Meigs, 1211 Walnut street, Philadelphia. Owners, Tacony & Palmyra Ferry Co., care of George T. Sale, Liberty Building. Timber, wood piles, frame, 2 stories. Plans in progress. Engineer will take bids in one month.

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Residence, Haddon Heights, N. J. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, George F. Swackhamer, 616 Linden street, Camden, N. J. Hollow tile and stucco, 2½ stories, 28x37 feet, shingle roof, pine floors, hot water heating, electric lighting. Plans about completed. Owner will take bids in one week.

Lyceum, Moorestown, N. J. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, Our Lady of Good Counsel Roman Catholic Church, Moorestown, N. J. Stone and brick, 2 stories. Preliminary plans in progress.

Hospital Building, Vineland, N. J. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Vineland Hospital Association, care of Judge R. P. Tuller, president, Vineland, N. J. Brick, 2 and 3 stories, will contain 50 beds. Architect drawing preliminary plans.

Residences (2), Woodstown, N. J. Architect, W. L. Custer, Law Building, Camden, N. J. Owners, J. P. & R. Leop, care of architect. Hollow tile and stucco, 2½ stories, 43x25 feet and 18x15 feet, tile roof, hardwood floors, hot water heating, electric lighting, tile work. Architect taking bids due January 9th. E. J. Kreitzburg, 1345 Arch street; H. Seagraves, Woodstown, N. J.; Arthur F. Hoffman, Pitman, N. J., and Heavner & Guthridge, Norristown, Pa., are figuring.

School (fire restoration and repairs), Walnut street, Woodbury, N. J. Architects, Bal-

linger & Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education, City of Woodbury, Walter B. Wooley, Woodbury, N. J. Brick work, carpentry, mill work, demolition, metal lath, plastering, painting, glazing, iron and steel work. Owners taking bids. H. John Homan, 34 South Seventeenth street, and F. B. Davis & Son Co., 240 North Sixteenth street, are figuring.

Fernwood Service Station, Fernwood, Mercer County, N. J. Architect, private plans. Owners, State of New Jersey, Highway Department, Division of Bridges and Structures, Broad Street Bank Building, Trenton, N. J. Brick and steel, 1 story, 406x100 feet, slag roof, cement and pine floors, rolled steel sash, rolled steel fire doors, Bond (heating, electric work separate bids). Lowest bidders: Austin Co., Bulletin Building, Philadelphia, $94,330; Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, $99,340.

Garage and Service Building, Forty-first and Maple avenue, Merchantville, N. J. Architects, Lackey & Hettle, 509 Federal street, Camden, N .J. Owner, J. B. Moery, 283 North Thirty-fourth street, Camden, N. J. Brick, cut stone and steel, 1 story, 150x40 feet and 152x120 feet, slag roof, cement floors, hot water heat, electric light, metal lath, rolled steel sash, Bond, plate glass. Architects have received revised bids.

Miscellaneous Construction News

Church, Brunswick, Md. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Mark's Parish Grace Episcopal Church, Brunswick, Md. Stone and steel, 2 stories and basement, 38x126 feet, slate roof, maple floors, metal lath, waterproofing, Bond, steam heating, electric lighting, demolition. Architect taking bids due January 18th. F. L. Hoover & Son, 1023 Cherry street, Philadelphia; Harry B. Funk, Brunswick, Md.; Chas. B. Korn, Brunswick, Md.; A. L. Beeble, Toms Brook, Va.; Roy W. Poole, Frederick, Md.; Arthur L. Smith & Co., 1130 Woodward Building, Washington, D. C., are figuring.

Hospital (add.), Winston-Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, City Hospital, Winston-Salem, N. C. Hollow tile, brick facing, 3 stories and basement, 37x75 feet, slag roof, linoleum and composition floors, dumb waiter, tile and marble work, electric work, stone foundations (heating reserved). Heating engineers, Wiley & Wilson, Lynchburg, Va. Owners taking bids due January 18th. Deposit of $30.00 required for set of plans. Refund of $20.00. Certified check for $15,000 must accompany each bid. Deposit of $15.00 required for heating plans. Refund, $10.00. Certified check for $5,000 must accompany each bid. Complete list of bidders to date: W. H. Fetter Const. Co., Winston-Salem, N. C.; King Lumber Co., Charlottesville, N. C.; Lee Const. Corp., Richmond, Va.; Goode Const. Co., Charlotte, N. C.; J. A. Jones Const. Co., Charlotte, N. C.; J. L. Crause, Greensboro, N. C.; Gooch Williams Co., Norfalk, Va.; Dupont Eng. Co., Wilmington, Del.; North Eastern Const. Co., Charlotte, N. C., and Harwood & Moss, Newport News, Va., are figuring.

Manufacturing Building, Wilmington, Del., $50,000. Architect, private plans. Owners, Joseph Bancroft & Sons, Wilmington, Del. Brick and steel, 5 stories, 120x60 feet, slag roof, maple floors, hollow metal sash, ornamental iron work. Contract awarded to John E. Healey & Sons, Inc., 707 Tatnall street, Wilmington, Del.

(Continued from Page 4)

(5) An improved standard of construction service throughout the country.

Officers of the Conference were elected as follows:

Chairman, Onward Bates, of Chicago, representative of the Western Society of Engineers; vice-chairman, J. W. Cowper, of Buffalo, N. Y., representative of the Associated General Contractors. He served as chairman during the first session owing to Mr. Bates' sickness. Secretary, W. P. Christie, of Washington, D. C.

General R. C. Marshall, Jr., and William B. King, representing respectively the Associated General Contractors and the American Bar Association, were elected members of the conference. Other delegates were:

W. A. Rogers, of Chicago, substitute delegate for the Western Engineers; E. W. Reaugh, of Cleveland, for the Builder's Exchanges; A. P. Davis, for the Engineering Council, substituted by L. W. Wallace; J. Waldo Smith, of New York City, for the Waterworks' Associations; William S. Parker, of Boston, for the Architects; H. K. Bishop of Washington, for the Highway Officials; H. Eltinge Breed, for the Civil Engineers, substituted for by J. S. Langthorne; W. D. Faucette, for the Railway Engineers.

A course of procedure devised by General Marshall for the study and development of standard forms was unanimously adopted as the method of handling the job.

References were made to similar efforts which had been made by the American Engineering Standards Committee in setting standards for materials and methods of construction; also to work by the Engineering Council in drawing up standards for government contract work; and to the effort of the American Railway Engineering Association along the same line in their special field.

William S. Parker, of Boston, Mass., secretary of the American Institute of Architects, narrated the interesting experiences of their committees during the last twenty years in the attempt to promulgate a standard form of contract which would be universally accepted by architects and builders.

He said: "Our work started back in the very early 1900's and a committee worked for five or six years on what was eventually called the first edition of the American Institute Standard Documents. That document was not put into general use because it was badly planned in its physical arrangements and printed in tvpe not easily read, and was developed by architects with the view of protecting the interests of the owner only.

"In 1912 we realized that it wasn't accomplishing its purpose or justifying the time and expense put into it and took up a plan for revision under the chairmanship of Frank Miles Day of Philadelphia.

"Later we called a meeting of contractors, sub-contractors and architects and legal representatives on both sides, in Philadelphia, and both sides had their say as the document developed. That was completed and the second edition printed in 1914, but the Building Trades' Employers' Association in New York took exception to a few points, so we called a further conference in 1916 and issued our third edition in 1917. This edition is selling at the rate of 50,000 copies annually, and our Board of Directors has decided that we will not make any further changes for some years to come."

Mr. H. K. Bishop speaking for the highwaymen, described how the U. S. Bureau of Public Roads had enforced the standardization of contract forms, also the bond, proposal, specification and plans forms which were used in highway construction that involved federal aid.

He said: "In general we used the short form of contract covering only one or two pages, making all the specifications, which carry all of the standard clauses, a part of the contract. Even the sheets were of standard size and typography, and we went so far as to standardize the structures. Now you will find if you pick up specifications in one state you can't tell what state it is until you look on the title page. And we find that the counties are gradually following the states so that this standardization is extended not only to the forty-eight states of the Union but to most of their subdivisions. We have found that very much simplifies the work."

Mr. W. D. Faucette, of Norfolk, Va., chief engineer of the Seaboard Airline Railway, speaking of his experience as Chairman of the Committee on Reform of General Contract forms, described the "uniform general contract form" which the Association of Railway Engineering Association had adopted at its convention in 1913 and printed in its Manual. After stating that it was not obligatory upon the membership of his Association to use it but that it was generally considered a "guidepost" for engineers with railroad contracts to let, he said: "I sent out seventy-five letters to the principal railroads of the United States and Canada to ascertain the use and adaptation of this contract form. The predominating answer was that they were not using it verbatim but were using it constantly as a guide, and the legal departments themselves adjusted the phraseology as they saw fit."

J. Waldo Smith, chief engineer of the

New York Board of Water Supply, showed a sympathetic attitude for the hard-working contractor by explaining how the corporation counsel of any city was inclined to encumber the contract with all sorts of binding clauses so that there was never any opportunity for the contractor to "recover" under the contract for any particular hardship and that the principal hope and guarantee of the contractor on a public works job lay in the "reasonable rulings" of the chief engineer who acts as judge on disputed points

He said: "We are embarking on a very praiseworthy effort to simplify contracts. I presume to have eliminated any clauses which the legal profession insists on having put in and which we engineers and architects think are unfair. It seems to me you are starting out in the right way with this intention to create a frame work on which the substance can later be built. That will be a distinct help and tend to eliminate a great deal of trouble that we have had in the past."

W. A. Rogers, of Chicago, Ill., speaking for the Western Society of Engineers said: "I only wish Mr. Bates were here, for after many years experience as an engineer and later as a contractor, he has in recent years made his principal business a matter of arbitration. I am hopeful that this convention shal be a success, and I feel that what we have got to strive for is not a perfect document but the best one we can get. Thus we can improve it year after year."

E. W. Reaugh, President of the Reaugh Construction Company of Cleveland, Ohio, described the experiences of fellow contractors in Cleveland with the standard form already introduced there by the Institute of Architects, by saying: "We find out that some of our largest contractors in the City of Cleveland have never even heard of these standard documents, and when I last reported to the Builder's Exchange that our committee considered the sub-contractors had been well represented and the general contractors had been forgotten entirely in these documents, many of them wanted to know about the standard documents and a few got copies and have been looking them over since. One large contractor reported to us: 'When we go to the architects to sign up they just tear out this first part of the agreement and pay no attention to the balance. Other architects we go to, sign up the agreement and then substitute their own general conditions. Still others look through the general conditions and so on and mark them up and change them so you can hardly tell them when you get through with them. Thus we get a set of documents which you think you understand legally and when you go to your architect he wants to change something else. It means go to your attorney every time so that you know where you are at.'"

William B. King, legal expert on contract forms, said: "The principal things that it seems essential to me to do are first that the people who already have standardized forms should be recognized as being the proper people to discuss the special forms relating to their business; and second, that there should be an effort (after these discussions) to get together and agree as far as possible on a uniform wording of those different contract forms."

General Marshall then spoke briefly as follows: "I just want to make a plea for the construction industry for two or three minutes. Construction has always been looked upon in his country in its elements. It has not been looked on as an industry. It has been looked on as architects, as engineers, as general contractors as sub-contractors, as material manufacturers, as material units, as equipment manufacturers, equipment dealers, insurance men, and you can county many more.

"In thinking about this subject I naturally think about the time at the beginning of the war. There were some of us in the War Department who had to make quick progress, knowing that this construction work was necessary before soldiers could be drilled, munitions manufactured or distributed. Was there a construction industry that the nation could turn to in this crisis? There was none. Was there a standard contract that the nation could turn to? There was not, and there are 200 contracts over there in that box that you can have. That problem has been working in my mind since that time.

"Now the object today is, I believe, to do for the whole construction industry what the American Institute did for the building branch of it and surely the business conditions of all construction work are alike.

"The fact that these different things have been considered in their elements is one of the grave causes why the public looks upon construction as it does, as the most loosely co-ordinated business that the country has. No two of them think alike. The engineer does not think like the architect with respect to business conditions. Neither of them thinks like the contractor. We found at the beginning of the war that not only was this the case, but each mistrusted the other, and the attitude of the public was the same as that mistrust that you had of each other.

"That was the reason we got the newspaper notoriety we did get, why you got the reputation that culminated in what the Graham Committee said about profiteering and other things in connection with it. No set of men worked harder or accomplished more than the engineering, architects and contractors did all through the war, but because of that looseness of co-ordination and because there were 200 contracts where there ought to have been five or ten, and because you did not all talk the same language, although you were doing the same kind of work, you got that reputation.

"I believe there are many contract conditions that are common, that can be expressed in language carefully picked from contracts already existing, and if we can segregate these common conditions we will get a co-ordination between the professional and construction side, so that at least that much of it will be on the road to solution. This assemblage here is a plea for co-ordination in the construction industry."

The final session of the conference was devoted to a detailed study of clauses which could be approved for incorporation in the standard contract "agreement," the members voting on each topic separately until a definite list of topics had been made which seemed acceptable for universal use.

It was the concensus of opinion that such a universal document could be achieved, and its scope or length would have to be determined after prolonged consideration of each topic in detail.

It was also decided that sub-committees should later be appointed in each phase of the industry to draw up the standard form of "general conditions" (one for the railroads; one for the builders; etc.) which would complement the general "agreement" according to the nature of the job.

Thus the general principles of the universal contract were fixed, and a committee consisting of General Marshall for the constructors, W. S. Parker for the architects, and W. D. Faucette for the Railway Engineers, was appoined to write out the documents in tentative form for correction and approval by the conference at its next meeting in January, after which the forms will be transmitted officially to the various societies and organizations interested for further consideration and ultimate adoption.

Just before adjournment, the conference passed a resolution of appreciation and thanks to General Marshall for the great amount of work he had done in preparing the "tentative outline" and for his untiring efforts in aranging for conference action.

CEMENT ASSOCIATION BASES MEMBERSHIP ON QUALITY OF PRODUCT

At the final session of the Annaul Meeting of the Portland Cement Association, which was held last week at the Biltmore Hotel, New York, the Association's Constitution and By-Laws were amended so as to make membership in the Association "Contingent upon member's product meeting the Standard Specifications for Portland Cement adopted by the United States Government and the American Society for Testing Materials."

Engineers, architects, and contractors are familiar with the high standard of specifications governing cement manufacture and will herald this action as the greatest advance step ever taken by the industry.

Along with other scientific-educational-research activities, the Portland Cement Association is distinguished for its co-operative work with technical societies. This has been in the nature of contributing to the improvement of building materials, methods and standards in general, among these being building codes, but the Association has particularly been active in keeping standard requirements for portland cement on a high plane and in insuring its proper use by the consuming public.

The Association is not concerned with the commercial relations of its members to their patrons and while not undertaking to guarantee directly the quality of cement produced by its members, has very adroitly accomplished the same thing by adding to its Constitution and By-Laws the amendment above mentioned.

This action of the Portland Cement Association perhaps typifies its service to the public in a way that will be more readily grasped by people at large than any other one item of practice or policy under which it operates. President L. T. Sunderland of Kansas City, Mo., who was re-elected at the Annual Meeting, in commenting upon this amendment, says, "This only serves as a further protection to the cement buying public. Portland cement always has been a highly standardized product, but as varying degrees of skill have been displayed in so-called tests of cement made by people not thoroughly grounded in testing practice through lack of long and competent laboratory training, misleading resuults have often been announced. The public can now feel assured that if the cement is produced by a member of the Portland Cement Association, that fact is an added endorsement of quality and actual assurance that it will measure up to the accepted engineering standards, since otherwise membership in the Association would be thereby jeopardized."

Re-elected with President Sunderland were Richard Hardy, First Vice-President, Chattanooga, Tenn.; S. B. Newberry, Second Vice-President, 818 Engineers' Building, Cleveland Ohio; and F. W. Kelley Treasurer 126 State St., Albany, N. Y.

The following directors were also elected:

H. Struckmann, 342 Madison Avenue, New York, N. Y.; Charles F. Conn, 603 Pennsylvania Building, Philadelphia, Pa., H. L. Block, Post Dispatch Building, St. Louis, Mo.; W. M. Hatch, Union City, Michigan; Geo. T. Cameron, Crocker Building, San Francisco, Calif.; and David M. Kirk, Wampum, Pa.

The greatest building activity in this country next year will be in the industrial states, according to a forecast of the building outlook made today by the Committee on Statistics and Standards of the Chamber of Commerce of the United States.

It is pointed out by the Committee that there will be a good many business buildings next year, and a large number of them will be in the shape of alterations and enlargements. On the other hand, it says, it is unfortnuate that not a great many farm buildings, such as dwelling houses, barns, cribs and the like are contemplated.

According to the Committee, California leads the other states with respect to probable construction, while good likelihoods of construction lie in the Central West and in the East.

"There, also, are a great many possibilities for building in the Southern States," it says. "These possibilities are greater than seemed likely under the stringent conditions which prevailed there prior to the rise in the price of cotton.

"The prospects for building in the strictly agricultural states are not so favorable. There are several reasons for this, principally the exceedingly low and unremunerative prices on farm products, which seriously reduce the purchasing power of the farmer. In addition, the banks generally throughout the agricultural sections are fully loaned up, so that the farmer finds it difficult to obtain either ready money or credit. In such circumstances there is not likely to be much building in these states, especially on farms, for the simple reason that the farmer is financially unable to build.

"Three factors enter largely into the problem of building during the coming months: the high price of material, high price of labor and the question of obtaining funds for construction. Prices of material, on the whole, are much the more favorable of the three factors. It is only here and there that there is any apparent difficulty in this respect. The matter of too high priced labor does not stack up so well as that of material, but there is a general belief that not only are matters improving in this direction but when springtime comes, the long period of probable idleness of labor will naturally tend to bring about a much more favorable of this problem than is now presented.

"There are the usual scattered exceptions to any general statement. Labor is plentiful in some sections, scarce in others. The matter of obtaining money for construction is the most difficult problem of all. It is not that money seems to be so high in price as that it is hard to get, particularly in the agricultural sections and on the countryside rather than in the large cities.

"Apparently when construction gets well under way, it will comprehend a great many dwelling houses in its purpose and intent; this because of the supreme necessity of more adequate housing almost everywhere.

"There also will be a very large number of educational buildings, such as schools, and additions to colleges and universities. The numerous 'drives' for funds set on foot by all sorts of educational institutions will bear fruit in many new buildings next spring. In particular, the great state universities of the West and the South have more liberal appropriations from their various legislatures for building purposes than for many years. There are likewise a number of public buildings under way.

"Few things tend to hasten the return to better times more than the building industry. Things used in the building of dwelling houses call upon virtually all the industries of the country for their products. A general and far-reaching construction program in this country in 1922 is the best possible harbinger of a return to more prosperous conditions."

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.

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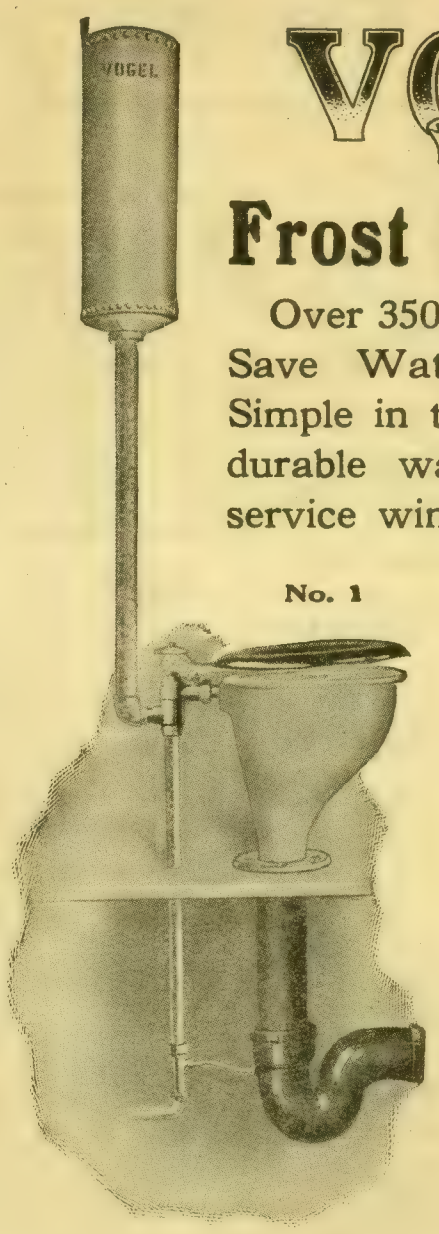
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RESOURCES

Loans and Investments	$38,213,369.49
Liability under Letters of Credit	37,977.57
Interest Earned Uncollected	203,311.79
Due from Banks	10,485,607.47
Cash and Reserve	4,697,050.03
Exchanges for Clearing House	2,464,414.88
	$56,101,731.23

LIABILITIES

Capital	$1,000,000.00
Surplus	4,000,000.00
Undivided Profits	1,581,140.22
Reserve for Taxes, etc.	585,694.48
Discount and Interest Unearned	150,334.72
Letters of Credit	37,977.57
Rediscounts at Federal Reserve Bank	None
Deposits	48,746,584.24
	$56,101,731.23

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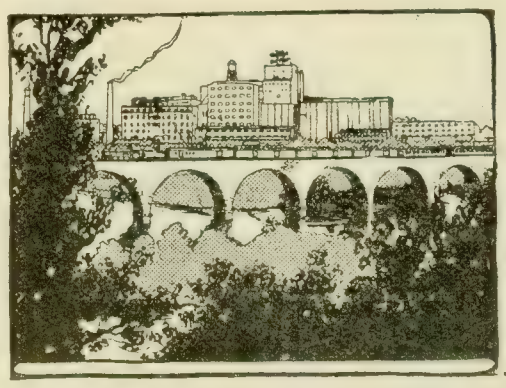
Capital $1,000,000 Surplus $1,000,000
Deposits Over $11,000,000

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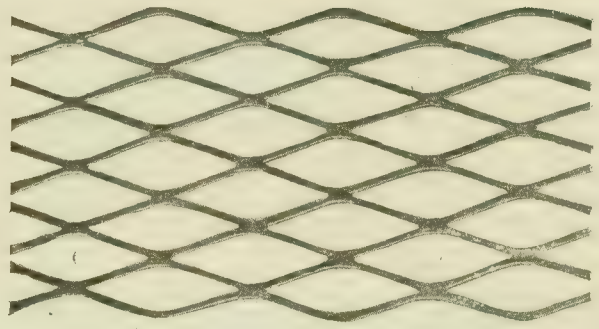
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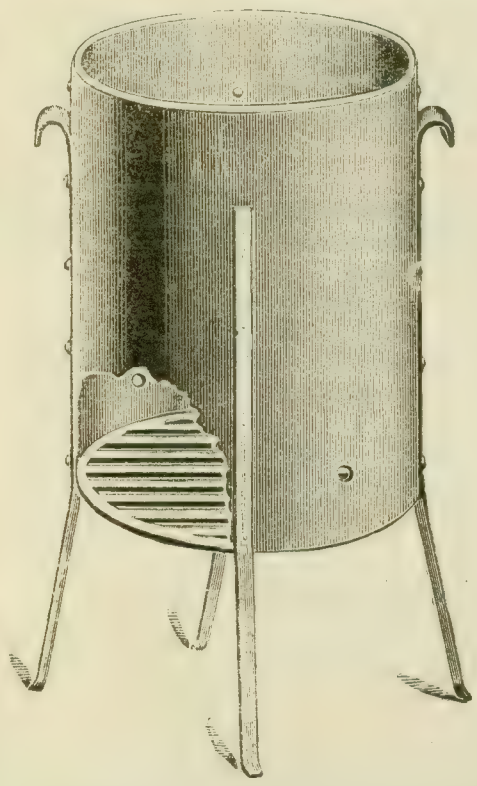
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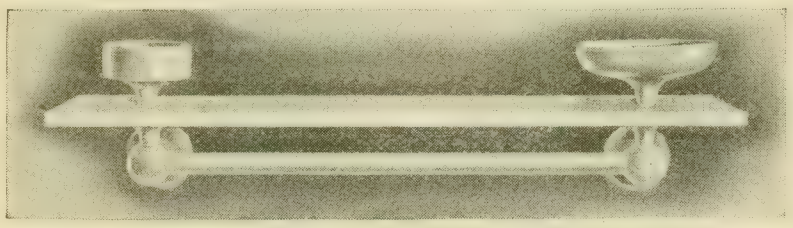
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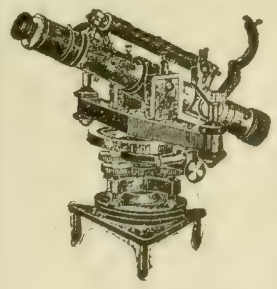
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
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January 11, 1922

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As The Editor Sees It

THE estimated cost of all buildings, alterations, additions, repairs and miscellaneous work in buildings for which permits were issued by the Philadelphia Bureau of Building Inspection for 1921 was $42,790,780, according to detailed reports printed on other pages of this issue of the GUIDE. Total operations of all kinds amounted to 14,-654. Compared with 1920 the report shows a decrease of $12,514,620, although an increase of 2,142 in operations over 1920.

More than 50 per cent. of the permits were for alterations and additions, which totaled $14,278,500, and these were the dominating factor in making this year a record one.

The total number of dwellings erected in 1921 was 2,244 at a cost of $12,149,-110. Permits were granted for 15 tenement houses, costing $810,000, making the total for dwelling construction, which led all classes of building, $12,959,110. A material increase in housing was made in 1921 over 1920. The number of dwellings in 1920 was 1,208, costing $10,466,-950. 1921 shows an increase of 1,036 houses over 1920, but does not approximate the yearly average. The average number of dwellings erected per year in Philadelphia prior to 1917 was 7,150. The average erected from 1917 to 1920 inculsive was 2,550, which showed a decrease per year of 4,600 houses for the four years, totaling 18,400, with a shortage in 1921 of 4,900, Philadelphia is approximatey 23,300 houses short of requirements.

The best month in 1921 for construction was November, with a total value of $5,796,695. October was a close second with $5,533,225. The lowest month was January, with $1,124,400.

Garage construction has been very active all through the year, and at one time more garage than dwelling permits were issued. There were 1,569 garages erected, costing $3,505,695.

Hotel construction was the poorest class of all buildings. In twelve months only one permit was issued for a hotel, which cost $10,000.

The following table shows the total for each year back to and including 1909:—

Year	Operations	Estimated Cost.
1909	17,294	$42,881,370
1910	16,383	37,866,565
1911	16,215	40,030,985
1912	14,907	37,173,635
1913	14,813	38,763,850
1914	15,709	35,419,605
1915	17,712	39,444,125
1916	15,613	49,896,570
1917	8,977	34,016,408
1918	5,950	15,452,670
1919	14,509	65,088,750
1920	12,512	55,305.400
1921	14,654	42,790,780

The estimate cost of operations for 1921 is approximately $12,600,000 below 1920. The forty-second ward, with 640 dwellings erected, leads all other districts. 587 two story dwellings and 53 three-story dwellings were built in this ward.

September, which is generally a dull month, leads in the number of dwellings started in the entire city, with 415, and October was second with 305. November followed with 276, and December showed a very large increase over 1920. This is an indication that residence work is very much on the increase.

* * *

Realizing the gigantic problems confronting the Building Industry in Philadelphia, a meeting of Construction men was held in the City Club, Thursday evening, December 5th, to analyze the situation and devise remedies to overcome friction and promote harmony and co-operation. It is regretable that the builders were not present at this meeting; not one of those present when introducing himself to the meeting was a builder. Architects, material men, Building Material Association's officials, engineers, school officials, city officals, representatives of organized labor associations, the press and all interested in promoting building were in evidence, but not a builder. The builders must come out of their shells if they want genuine coperation.

DRAWING MATERIALS

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Great credit is due Mr. W. S. Hays, General Secretary of the National Federation of Construction Industries, who was instrumental in calling the meeting and preparing a most interesting programme. Harry C. Woods, Secretary of the Philadelphia Builders' Exchange and Employers' Association, had much to do with the success of the meeting. He was the prime factor in keeping the wheels moving and merits appreciation. Clarence C. Zanzinger, a prominent Philadelphia Architect of International fame, was toastmaster. Mr. Zanzinger's knowledge of conditions and affairs was evidenced in the ease with which he presented the various speakers and celerity with which he extracted the kernel from the shell. The purpose of the meeting, which is the first of a series, as Mr. Zanzinger explained, is to stimulate "a work together spirit for Philadelphia." The sense of the meeting was that apart from the construction needs due to normal growth of our city and those created by the war curtailment of new home building and proper maintenance of existing buildings, streets and all structures, the Delaware Bridge, Parkway Development and Sesqui-centennial with their contemporary construction requirements will make the next four years the most active period the construction industries of Philadelphia and vicinity have ever known.

It is up to us to devise ways and means to meet these needs. It will require continuous work by everyone. No more time must be wasted by workers whose maximum productive effort, and man hours will be so necessary. It will call for the best possible co-operation, leadership and team work. Our guiding motto must be maximum service at the lowest cost consistent with good standards of construction and living.

Samuel S. Shay, of the New Jeresy Bridge Commision, told of the work of the commission and said the work would be pushed to completion as rapidly as possible. I. T. Catherine, of the Board of Education, said that from 65 to 70 per cent. of Philadelphia's schools are old buildings and 17 per cent. of the pupils are on half time. Sixty million dollars are to be spent in the next ten years on schoolhouse construction. 18 new high schools and fifty-nine grade schools are part of the contemplated programme. Jos. A. Steinmetz advocated the Parkway site for the Sesqui-Centennial. He said that $25,000,000 of construction is planned or projected in that section. Concerning accommodations for automobiles, he said a project is under consideration to establish a huge parking area over the Diamond street reservoir.

Bernard J. Newman said that we need $80,000,000 of construction for homes in Philadelphia; that we are 20,000 houses short of requirements and that 6,000 houses must be built annually to care for the increase in population. He referred to the need of three or four millions of dollars for a revolving fund for construction.

David Knickerbacker Boyd, whose tireless efforts in the interest of the Building Trades not only in Philadelphia but throughout the entire country, are recognized and were acclaimed by all present, said that we must eliminate the waste of unemploment and restore interest and pride of craft to the workers in the building trades.

* * *

Subsequent meetings will be held Jan. 12th at Longacre Private Dining Room, 12.30 P. M., "Getting Dwelling Construction Under Way," discussion led by Messrs. Bernard J. Newman and J. W. Pearce.

Jan. 19th, Engineers' Club, 8.00 P. M., "Recruiting and Training Apprentices, Journeymen and Workers of the Building Trades," Mr. D. Knickerbacker Boyd is Chairman of this meeting.

Jan. 26th, Longacre, 12.30 P. M., subject, "How To Reduce Costs of Estimating," discussion led by Mr. Paul A. Davis.

* * *

ONLY the man who fancies himself in the role of pessimist can possibly find any excuse for discouragement in the 1922 business outlook. Men who can see the affairs of the country from every angle tell us that there is every reason to believe that the tide has turned, and that the country is on a gradual return to normal conditions. Thus, *Manufacturer's News* tells us:

Although industry received many hard knocks during the year now just closed, its prospects today are brighter than they have been since the signing of the armistice. It has passed through a period of readjustment more severe and radical in duration and extent than any experienced heretofore. It has taken, with creditable equanimity and courage, the losses incident to the deflation of values, and is now in splendid shape to meet competition in foreign as well as domestic markets.

The feeling of extreme optimism which ruled the country last September and October and that of pessimism which governed earlier in the year have given place to a rational and substantial faith in the gradual revival of business. There are no fantastic dreams of rapid trade expansion but a determination to make the best of every oportunity and to prepare for the general upturn, which is not far off.

(Continued on page 32

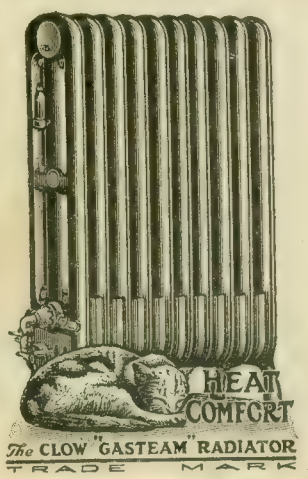


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Office Building (alt. and add.), Twenty-nine and Gray's Ferry road, Philadelphia. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, Henry Bowers Chemical Co., on premises. Brick, steel and cut stone, 2 stories, 37x46 feet, Johns Manville roof, cement and tile floors, metal lath, roof ventilators, waterproofing, terra cotta iron work, Bond, marble work, demolition. Architect has taken approximate bids.

Residence (alts.) to Dental Offices, 417 South Eighth street, Philadelphia. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, Dr. J. Silberstein, Eighth and South streets, Philadelphia. Brick work, new partitions, hot water heating, electric lighting. Architect taking bids due January 14th. Frank Fitt, 315 Chew street; B. & L. Construction Co., 705 Pierce street; Jacob Bender, 1817 South Fourth street, and Robbins Cont. Co., 1137 North Front street, are figuring.

Show Room and Office (alts.), 2615-17 Frankford avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Brinkmann Brothers, on premises. New front, 1 to 3 stories, tapestry brick, 38 feet (Silver Lake roof reserved) (heating reserved), electric lighting, hardwood floors, cabinet work, plate glass, copper bars, leaded glass. Plans about completed. Will be ready for bids in one week.

Store and Office Building and Power House, Fifteenth street, Chestnut street to Ionic street, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets. Brick, steel, stone, limestone, terra cotta, 18 stories, 80x140 feet, steam heating, electric lighting, elevators. Preliminary plans in progress.

Municipal Court Building, Parkway, Philadelphia, $1,000,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, County Commissioners, City Hall, Philadelphia. Stone, steel, granite, terra cotta and brick, composition roof, cement floors, hollow tile, metal lath, tile and marble work, steam heating, electric lighting. Plans completed. Awaiting court decision to take bids.

Residence, Roxborough, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Mrs. C. S. Mears, Roxborough, Philadelphia. Stone and frame, 2½ stories, 35x24 feet, shingle roof, hardwood floors, hot air heating, electric lighting, tile work. Architect will be ready for bids in ten days.

Bath House, Passyunk avenue and Wharton street, Philadelphia. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owner, name withheld. Brick and steel, 2 stories, 60x75 feet, slag roof, concrete work, waterproofing. Plans in progress.

Factory Building, Delaware avenue and Dickinson street, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, Morice Twine Mills, care of John H. Morice, president, 84 Tasker street, Philadelphia. Brick, steel and concrete, 2 stories. Plans about completed. Architect will be ready for bids in about three weeks.

Loft Building, 138 North Seventh street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, name withheld. Brick, 2 stories, 18x50 feet. Plans about completed. Architect will be ready for bids in two weeks.

Club House (alts.), Camac and St. James streets, Philadelphia, $6,000. Architect, Albert Kelsey, Perry Building, Philadelphia. Owner, Franklin Inn Club, on premises. Stucco work, maple floors, mill work, plumbing, general alterations. Plans in progress.

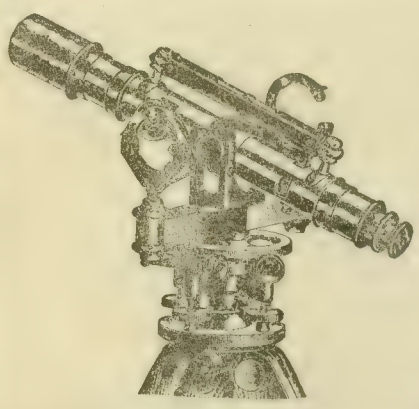
Garage, 119 to 125 Wildey street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, Joseph Feldman, Lincoln Building, Philadelphia. Brick, 1 story, 60x120 feet, slag roof, cement floors, cold water painting, rolled steel sash, iron work, steam heating, electric lighting. Owner is ready for bids.

Stores (10), Offices and Apartments, Orthodox and Paul streets, Philadelphia. Architect, Edward L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Joseph A. & Edward H. Thompson, 2118 Orthodox street, Philadelphia. Brick, 3 stories, 148x69 feet, slag roof, hardwood and pine floors, steam heat, electric light, tile and marble work, hollow metal sash and skylights, plate glass, store fixtures, metal ceilings, water heaters, plumbing. Architect will be ready for bids in three weeks.

Residence (alts.) to Apartments, 4114-16 Baring street, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Harry Yerkes, 5041 Lansdowne avenue, Philadelphia. General alterations to 3-story residence, plumbing, electric work, tile work. Owner will take sub-bids in one week.

Business Offices, 512-14 Walnut street, Philadelphia. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owners, George Woods Sons & Co., 626 Chestnut street, Philadelphia. Brick, cut stone and steel, 4 stories and 2 stories, 54x119 feet, garage, 2 stories, 59x23 feet, slag roof, cement and maple floors, hollow tile, metal lath, elevators, waterproofing, iron stairs and work, Bond, hollow metal sash, rolled steel skylights, tile and marble work, steam heating, electric lighting, demolition. Architects taking bids due January 20th at noon. Cramp & Co., Denckla Building; Barclay White Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street; Frank G. Stewart, 1619 Sansom street; George A. Fuller Co., 321 Walnut street, and R. C. Ballinger & Co., 925 Walnut street; are figuring.

Broad Street Front of Majestic Hotel (alts.), Broad and Girard avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, Arthur W. Pusey, West End Trust Building, Philadel-



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phia. Cement work, reinforced concrete, brick and cut stone work, carpentry, mill work, plastering, slag roof, metal lath, painting, hardware, demolition, tile, marble and terrazzo work, iron and steel work. Architect taking bids due January 13th. F. B. Davis & Son, 240 North Sixteenth street; F. A. Havens Co., 845 North Nineteenth street; John R. Wiggins Co., Eighteenth and Cherry streets; William R. Dougherty, 1610 Sansom street; McCloskey, Inc., and George H. Evans, Inc., 109 North Thirteenth street, and J. W. Emery, 34 South Sixteenth street are figuring.

Garage, 1830-40 South street, Philadelphia. Architects, Architectural Service Co., 10 South Eighteenth street, Philadelphia. Owner, Morris Liebowitz, 4155 Cambridge street, Philadelphia. Brick, 1 story, 39x65 feet, slag roof, cement floors (plumbing, steam or hot water heat and electric work reserved). Owner taking sub-bids and architect taking bids due as soon as possible. Fesmire Brothers, Huntingdon Valley, Pa., and the Real Estate Const. Co., Colonial Trust Building, are figuring.

Wing, John B. Stetson School, B street, between Allegheny avenue and Kip street, Philadelphia. Owners, Board of Education, care of J. D. Cassell, Nineteenth above Chestnut street. Brick, granite, cut stone and steel, 3 stories, 108x61 feet, composition and tile roof, cement and maple floors, metal lath, safety treads, metal weather strips, ceilings and metal covered doors, rolled steel skylights, demolition, iron work, terra cotta. Lowest bids submitted by: Franklin M. Horris Co., Inc., 1520 Parrish street, $116,777; Kober Const. Co., 34 South Seventeenth street, $116,800. Heating, Walters, Purks & Mellon, 4419 Ludlow street, $19,391. Plumbing, S. Faith & Co., 2429 Pennsylvania avenue, $4,271. Electric work, George Woodward, Jr., 1623 Sansom street, $3,945. Cabinet work, John E. Sjostrom Co., Inc., 1715 North Tenth street, $8,468. Ventilating, John Donahue, $1,193.

Wing, John Marshall School, Sellers, Griscom, Penn and Gillingham streets, Philadelphia. Owners, Board of Education, care of J. D. Cassell, Nineteenth above Chestnut streets. Brick, stone and steel, 3 stories, 29x35 feet, composition roof, maple floors, hollow tile, metal lath, weather strips and ceilings, iron work, tin covered doors, Bond, marble work. Lowest bidders: McCloskey Co., Inc., 1620 Thompson street, Philadelphia, $17,262; Bowden Const. Co., 1713 Sansom street, $18,000. Heating, Thompson Brothers, 520 Buttonwood street, $935. Ventilating, S. Faith & Co., 2427 Pennsylvania avenue, $847. Electric work, Walker & Kepler, 531 Chestnut street, $1,414.

Annex, William P. Tilden Junior High School, Seventieth and Buist avenue. Owners, Board of Education, care f J. D. Cassell, Nineteenth above Chestnut street. Brick, 1 story, 112x46 feet, slag roof, maple floors, carpentry, mill work, painting, glazing. Lowest bids submitted by: E. C. Durell, 1713 North Twenty-fourth street, Philadelphia, $12,802; Mitchell Brothers, 2125 Race street, Philadelphia, $13,900. Heating, McClintock Brothers, 5216 Webster street, $776. Electric work, George Woodward, Jr., 1623 Sansom street, $495.

Annex, C. W. Thomas, Jr., High School, 9th and Oregon Ave., Philadelphia. Owners, Board of Education, care of J. D. Cassell, Nineteenth above Chestnut street. E. C. Durell, 1713 N. Twenty-fourth street, Philadelphia, $12,987; Bowden Const. Co., 1713 Sansom street, $14,200. Electric work, George Woodward, Jr., 1623 Sansom street, $475. Heating, Mech. Equipment Co., 1201 Sansom street, $694.

Electric Work, Schools, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Whittier School, Charles E. Tull & Co., 117 North Sixteenth street, Philadelphia, $2,423. Fairhill School, George Woodward, Jr., 1623 Sansom street, Philadelphia, $1,525.

Residence and Store, 6227 Lancaster avenue, Philadelphia, $14,000. Architect, Richard A. Kearns, 10 South Eighteenth street, Philadelphia. Owner, Joseph McGlory, 2144 North Sixty-second street, Philadelphia. Brick, terra cotta and steel, 2 stories, 20x85 feet, slag and canvas roof, pine and oak floors, metal lath, roof ventilators, iron work, metal bulks, Bond, tile and marble work, hot water heating, electric lighting, tile work. Owner will build.

Residences (12), Tulpehocken and McCallum streets, Philadelphia. Architect, J. S. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owners, Provident Const. Co., care of J. J. Harnett, 3339 Ridge avenue. Brick, 2 stories, (10) 16x44 feet, (2) 20x45 feet, slag and tile roof, hardwood floors, hot water heating, electric light, tile work. Owner is taking sub-bids.

Apartment and Store, Northeast Corner Twelfth and Olney avenue, $20,000. Architect, private plans. Owner, Daniel Crawford, Jr., 701 North Sixty-third street, Philadelphia. Brick, 3 stories, 25x30½ feet and 30½x32x48 feet and 12 feet, slag roof, oak and yellow pine floors, steam heating, electric lighting. Owner will build.

Residence, East side Fiftieth street, South of Overbrook avenue, $25,000. Architect, private plans. Owner, T. F. Reilly, Fiftieth and City Line, Philadelphia. Stone, 3 stories, 45 feet 2 inches x 27 feet 4 inches and 18 feet 4 inches x 18 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Apartment (alts. and add.), 3212 Chestnut street, $12,000. Architect, private plans. Owners, Kaplan & Shatten, 6140 Pine street, Philadelphia. Brick, 4 stories, 14x16 feet, slag roof, maple floors, steam heat, electric light. Owner will build.

Residence, South side Roosevelt Boulevard, East of Second street, $8,000. Architect, private plans. Owner, Nathan Litman, 1597 North Fifty-second street, Philadelphia. Also **Residence**, Southeast Corner Second street and Roosevelt Boulevard, $8,000. Brick, 2 stories, 29x32 feet, 16x25 feet and 26x34 feet, 21½x22 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence (add.), 2221 Lippincott street, Philadelphia, $2,000. Architect, private plans. Owner, L. Pelligrino, on premises. Brick, 2 stories, 16 feet 10 inches x 23 feet, slag roof, yellow pine floors, electric lighting. Owner will build.

Store and Apartments, (alts.) 5926 Market street, Philadelphia. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, S. Weiner, on premises. Additional 3rd story and rear addition, general alterations. Plans wil be ready for bids in a few days.

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Residences (10), south side of Ellsworth street, west of Sixty-first street, $6,500 each. Architect, private plans. Owner, R. H. Pugh, 5713 Market street, Philadelphia. Brick, 2 stories, 16x54 feet, slag and slate roof, oak and yellow pine floors, electric light, hot water heat. Owner will build.

Institute Building, Nineteenth street, Race to Cherry streets, Philadelphia. Architects, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Franklin Institute, care of Dr. R. B. Owens, Secretary, 15 South Seventh street, Philadelphia. Architect selected. Preliminary plans in progress.

Church, Third and Wolf streets, Philadelphia. Architect, Chas. J. Mitchell, 23 South Sixteenth street, Philadelphia. Owner, Our Lady of Mt. Carmel, Roman Catholic Church, care of Rev. John J. Wheeler, on premises. Stone and steel, 120x78 feet, (slate roof, steel sash, heating, electric work, tile work and plumbing, reserved), slag roof, pine floors, metal lath, dampproofing, Bond, iron work. Architect taking bids due January 19th. Pierce Henon Co., Juniper & Pine streets; Thos. Reilly, 1616 Thompson street; Edward Fay & Sons, No. 2 South Mole street; Penn Const. and Eng. Co., 3840 Spring Garden st., E. E. Hollenback, Inc., 1804 Brandywine st.; Thos. C. Trafford, 1613 Sansom street; Wm. R. Dougherty, 1610 Sansom street, and Monaghan & Losse, Inc., 3016 Chestnut street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence and Garage, Northeast Corner Westview and Springbank avenues. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, Harrison I. Potts, 608 West Cliveden street, Philadelphia. Brick and stucco, 2½ stories, 40x50 feet, wing 20x40 feet, garage 24x30 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, metal weather strips, waterproofing, ornamental iron work. Contract awarded to I. A. Dunkelberger, 71 East Herman street, Philadelphia.

Stores and Apartments (3), Seventh and Jackson streets, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, L. Mansky, 1524 South Seventh street, Philadelphia. Brick and stone, 3 stories and basement, 17x60 feet, slag and slate roof, hardwood floors, metal lath, metal ceilings, waterproofing, plate and leaded glass, copper bars, iron work, cement floors, rolled steel sash, tile and marble work, hot water heating, electric work, plumbing. Contract awarded to M. Lesse, 605 Wolf street, Philadelphia.

Store and Residence, 5843 Germantown avenue, Philadelphia. Architect, Charles Cummiskey, 118 West Sharpnack street, Philadelphia. Owner, Samuel Badder, 5843 Germantown avenue, Philadelphia. Brick, 3 stories, 62x16 feet, slag roof, oak, pine and composition floors, tile and terrazzo work, metal lath, hollow metal skylights, iron window guards, metal ceilings, ornamental iron work (heating and electric fixtures reserved). Contract awarded to Triangle Const. Co., 44 Armat street, Germantown, Philadelphia.

Apartment Houses (3), Wayne avenue and Walnut lane, Germantown, Philadelphia. Architect, Thomas B. Lippincott, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, 3 stories, 40x90 feet, slag roof, hardwood and composition floors, steam heating, electric lighting, tile work. Contract awarded to F. W. Mark Const. Co., Inc., Commercial Trust Building, Philadelphia.

Stores and Rooming House, 1200-02 North Nineteenth street, Philadelphia, $19,000. Architect, Arnold B. Mueller, 1713 Sansom street, Philadelphia. Owner, M. Trachtman, on premises. Brick, cut stone and steel, 3 stories, 18x50 feet, slag roof, oak and pine floors, metal lath, demolition, iron work, tile work (heating, lighting and plumbing reserved). Contract awarded to J. H. Hinkle Co., 2520 Delancey street, Philadelphia.

Residence (alts.), 6620 Lincoln Drive, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, Mrs. Lipshultz, on premises. Demolition, electric work, roof repairs, composition floors, hollow tile, carpentry, mill work, metal lath, metal weather strip, iron work, Bond, tile and marble work, plastering. Contract awarded to Pierce Henon Co., Juniper and Pine streets.

Lumber Shed, Southeast Corner E and Luzerne streets, Philadelphia, $19,000. Architect, private plans. Owners, Joseph H. Collins Sons, Twelfth and Glenwood avenue, Philadelphia. Frame, 1 story, 100x230 feet, slag roof. Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

Weaving Mill (alts.), 3815 Frankford avenue, $16,000. Architect, private plans. Owner, Joseph Hulton, 3819 Frankford avenue, Philadelphia. Changing floors, general interior alterations. Contract awarded to F. Crompton & Bro., 4614 Oakland avenue.

Church, 2434-38 Ridge avenue, Philadelphia, $10,000. Architect, private plans. Owners, Morris Brown A. M. E. Church, on premises. Brick, 1 story, 42½x74 feet, slag roof, maple floors, steam heat, electric light, metal lath, tile work. Contract awarded to John W. Speller, 2425 Ridge avenue, Philadelphia.

Garage, 1741-47 North Marvine street, $10,000. Architect, private plans. Owner, F. G. English, 1609 North Fifteenth street, Philadelphia. Brick, 1 story, 60½x73 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to F. G. English & Son, 1608 North Carlisle street.

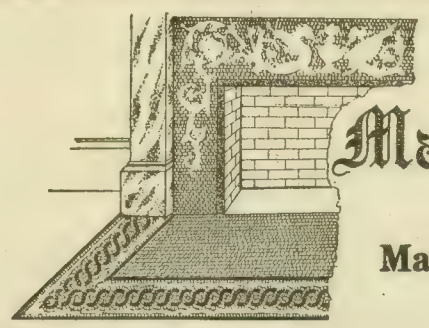
Store and Rooming House (add. and alts.), 5101 Market street, $8,400. Architect, private plans. Owner, Charles Fuechsel, 5213 Baltimore avenue, Philadelphia. Brick, 3 stories, 12x16 feet, slag roof, oak and yellow pine floors, electric lighting. Contract award-

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ed to Felix Claro, 309 Park Building, 23 South Fifty-second street.

Loading Platform, Amber and Venango streets, Philadelphia, $5,000. Architect, private plans. Owners, Gill Glass Co., on premises. Concrete, 12x120 feet. Contract awarded to Austin Co., Bulletin Building, Philadelphia.

Garage, Beaumont avenue, East of Fifty-eighth street, Philadelphia, $5,000. Architect, private plans. Owner, F. F. Fanus, Fifty-eighth and Beaumont avenue, Philadelphia. Brick, 1 story add., 60x64 feet and 17x13 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to F. Chamley, 2555 South Dewey street, Philadelphia.

Pent House, South side of Viola street, East of Fifty-first street, $4,000. Architect, private plans. Owners, Collins & Aikman Co., Fifty-first and Viola streets, Philadelphia. Brick, 1 story, 10x12 feet, skylights. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Storage Building, Southwest Corner Thirtieth and Arch streets, Philadelphia, $2,300. Architect, private plans. Owner, T. L. Eyre, Commercial Trust Building, Philadelphia. Iron, 1 story, 12x24 feet, galvanized iron roofing. Contract awarded to M. Moister Co., 3931 North Fifth street, Philadelphia.

Residence and Store (alts.), 5841 Germantown avenue, $2,000. Architect, private plans. Owner, J. Weiss, 5847 Germantown avenue, Philadelphia. General interior alterations. Contract awarded to W. J. Cowell, 5712 Crittenden street, Philadelphia.

Stores and Offices, (alts.), 1024 Chestnut street, $6,500. Architect, private plans. Owner, Geo. F. Wetherill, 304 Arch street, Philadelphia. Carpentry, millwork, cabinet work. Contract awarded to Erick Jansson & Co., 857 East Girard Avenue, Philadelphia.

Residence, 812 North Second street, Philadelphia, $12,500. Architect, Chas. F. Schaef, 901 Walnut street, Philadelphia. Owner, Harry Rutenberg, 810 North Second street, Philadelphia. Brick, 2 stories, 18x68 feet and 15x28 feet, slate roof, oak and yellow pine floors, hot water heat, electric light; tile work. Contract awarded to M. Lesse, 603 Wolf street, Philadelphia.

Residences, (4) 6041-43-45-47 Lawndale st., $3,500 each. Architect, private plans. Owner, C. Hammond, 1712 North Twenty-sixth st., Philadelphia. Brick, 2 stories, 20x27 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to W. R. Robinson, 7319 Rising Sun Avenue, Philadelphia.

Residences, North side of Moreland Ave., west of Ardleigh street, $7,000 each. Architect, private plans. Owner, Peter Brown, 228 Benezet street, Philadelphia. Stone, 3 stories, 17x37 and 21 feet, slate roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Brown Bros., 228 Benezet street, Philadelphia.

Residence, West side of Fairhill street, north of sixty-fourth street, $6,200. Architect, private plans. Owner, Ludwig S. Schwartz, 5119 North Tenth street, Philadelphia. Stone, 2 stories, 21x6 feet 10 inches, and 33x35½ feet, slag roof, oak and yellow pine floors, hot air heat, electric light. Contract awarded to H. W. Myers, 5814 Hasbrook Ave., Philadelphia.

Bank Building, (Alts.), Northwest corner Ninth and Walnut streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Peoples Bank, on premises. Carpentry, millwork, painting, glazing, iron work, plastering, metal lath, hardware, electric work, marble work. Contract for 3rd floor awarded to Smith-Hardican Co., 1606 Cherry street; Contract for 1st floor awarded

to Geo. Weiss, 1216 N. Mascher st., Philadelphia.

Factory, (alts.), 1513-15-17 Spring street, Philadelphia, $11,500. Architect, private plans. Owner, Julian Slevin, Inc., on premises. Slag roof, lumber, millwork, electric work, gal. iron cornice, painting, glazing, cold water painting, hollow metal skylights. Contract awarded to Penn Building Co., 1504 West Venango street.

Building, (alts., Southwest corner Sixth and Tasker streets, Philadelphia, $4,000. Architect, private plans. Owner, Morris Pamehoff, 1811 South Eighth street, Philadelphia. General interior alterations, hot water heating. Contract awarded to Chas. Schnnitzer, 2513 North Thirty-first street, Philadelphia.

Residence and Store, (add.), 5713 Chester avenue, $3,200. Architect, private plans. Owner, M. Lipkortz, on premises. Brick, 1 story, 16x16 feet tin roof, yellow pine floors, electric lighting. Contract awarded to Louis Swerdoff, 228 South Fifty-ninth street, Philadelphia.

PENNSYLVANIA
Construction News

High School, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, D. B. Hammelbaugh, 121 Chestnut street, Harrisburg, Pa. Steel and brick, fireproof, 1 story and basement, (A) 274x138 feet and (B) 182x138 feet, composition roof, cement and wood floors, metal lath, steam heating, electric work, marble and terrazzo. Lowest bids submitted by S. W. Shoemaker & Son, 421 Walnut street, Harrisburg, Pa., $202,630; C. W. Strayer, Lexington and Manhantongo streets, Harrisburg, $210,817; heating, Eugene Fogarty, 1121 North Front street, Harrisburg, $29,300; electric work, Lord Electric Co., 105 West Fortieth street, New York City, $7,400.

Residence, Brookline, Pa. Architect, Edward Hoffman, Jr., 315 South Fifteenth street, Philadelphia. Owner, Arthur D. Rees, 3804 Locust street, Philadelphia. Brick and stucco, 2½ stories, 41x25 feet, shingle roof, pine floors, hot water heating, electric lighting, ornamental iron work. Contract awarded to D. Ridgway Evans, Brookline, Pa.

Masonic Temple, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, care of D. E. Brindle, Carlisle, Pa. Sketches in progress. Too early for details.

School, Sykesville, Md. Architect, R. E. Starr, Spooner Building, Harrisburg, Pa. Owners, Board of Education of Carroll County, Md., care of M. S. Unger, secretary, Westminster, Md. Brick, 2 stories, 10 rooms, slag roof, pine floors, steam heat, electric light, tile work, roof ventilators. Preliminary plans in progress.

Printing Establishment, Thirteenth and Walnut streets, Harrisburg. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Central Printing & Publishing Co., 329 Market street, Harrisburg. Brick, steel, fireproof, 3 stories and basement, 56x90 feet, 2 wings, 24x20 feet, slag roof. Preliminary plans in progress.

Factory, West East street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Dudley Watch Co., Lancaster, care of architect. Brick, steel, 2 stories and basement, 40x120 feet, slag roof, concrete foundations, electric light, rolled steel sash, waterproofing. Plans in progress.

Bank, Palmyra, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Palmyra National Bank, Eugene Bowman, on premises. Brick, stone, 3 stories, 30x68 feet, stone foundations, metal roof, marble floors, hot water heat, hollow tile, tile work, rolled steel sash and skylights, roof ventilators, water and dampproofing, bank fixtures, ornamental iron work. Architect will take revised bids in two weeks.

Residences (4), Owen and Albemarle avenues, Lansdowne, Pa. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, Hugh McCormick, Lansdowne, Pa. Hollow tile and stucco, 2½ stories, 26x38 feet, shingle roof, pine floors, hot water heating, electric lighting, tile work. Architect will take sub-bids in one week.

Garage, Ardmore, Pa. Architect, William G. Wayne, Jr., 1501 Spruce street, Philadelphia. Owner, Andrew Wheeler, 2137 Locust street, Philadelphia. Stone, brick and steel, 2 stories, 41x58 feet, slag roof, cement and pine floors, hollow tile, waterproofing, terra cotta, iron work, marble work. Architect has received bids.

Service Station, Lancaster Pike and Lee avenue, Bryn Mawr, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, E. H. Le Boutillier, Edgewood, Pa. Brick, limestone and steel, 1 story, 57x50 feet, slag roof, cement floor, metal lath, rolled steel sash, copper skylights, Bond, plate glass, iron work. Architects have received bids.

Barn, Devon, Pa. Architect, Louis F. Adams, 1703 Chestnut street, Philadelphia. Owner, Charles C. Harrison, 400 Chestnut street, Philadelphia. Stone, 1½ stories, 60x40 feet, shingle roof, concrete floors. Architect has received bids.

Bridge, Over Schuylkill River, between Spring City and Royersford, Pa. Engineers, Warren F. Cressman, Montgomery County, and Harry Ellis, Chester Co. Owners, Intercounty Commisioners, care of County Commisioners, Norristown, Pa. Reinforced concrete, 410 feet long, 45 feet wide. Owners taking bids due Jan. 16th at 11 A. M. Mitchell Houseworth Co., Inc., 2712 North 25th street, are figuring.

Pennsylvania Contracts Awarded

Road Work, Butler Township, Route 214, $278,411.45. Butler Township and Oakland Summitt. One course reinforced concrete and hill vitrified brick, 36,418 feet long, 16 feet wide. Contract awarded to C. E. Walter, Butler, Pa.

Garage, Shamokin, Pa., $45,000. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Flock & Gleason, Shamokin, Pa. Brick and concrete, 1 story, 60x126 feet, slag roof, cement floors, hollow tile, metal lath, steam heat, electric light, tile work, rolled steel sash, roof ventilators, ornamental iron work. Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

Manufacturing Building, Royersford, Pa. Architect, private plans. Owners, Royersford Needle Works, Royersford, Pa. Brick and steel, 2 stories, 50x150 feet and 24x32 feet, slag roof, maple floors, steam heating, electric lighting, rolled steel sash, iron work. Contract awarded to Beling-Bush Co., Drexel Building, Philadelphia.

Warehouse (alts. and add.), Lancaster, Pa.



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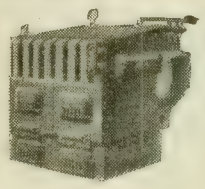
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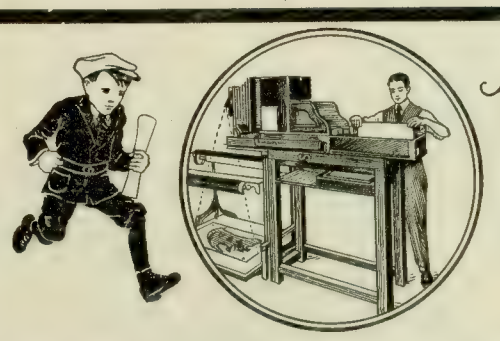
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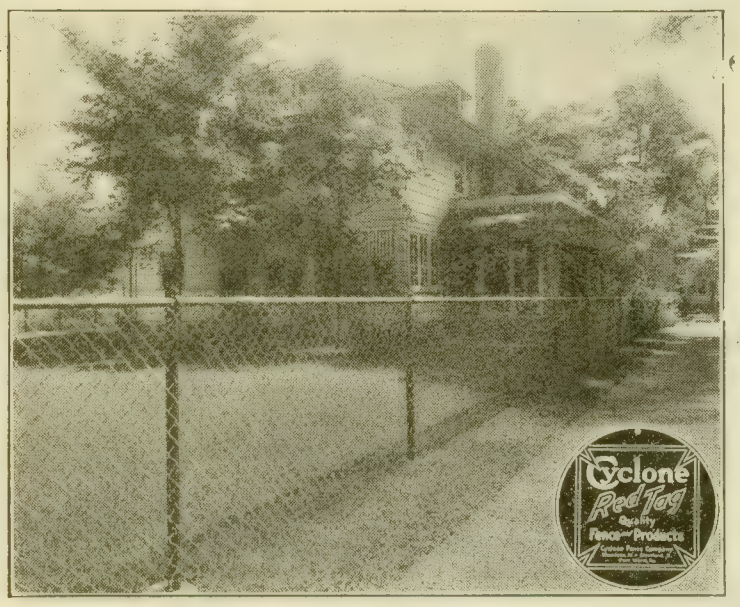
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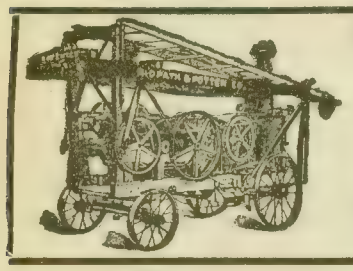
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Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, C. H. Spitzner & Son, Tobacco avenue, Lancaster, Pa. Brick, steel, stone, 5 stories and basement, 20x65 feet, stone foundations, slag roof, mill construction floors, steam heat, electric light, freight elevators, fire doors. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster, Pa.

New Pier and Alts. to Present Abutment, Bridge No. 17, Pickering Valley R. R., East of Chester Springs, Pa. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets, Philadelphia. To be replaced by two span steel plate girder. Contract awarded to Brown Const. Co., 6127 Ridge avenue.

Residence, Penrose Avenue and Beach st., Elkins Park, Pa. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owner, Geo. F. Tyler, Land Title Building, Philadelphia. General alterations to residence 46x40 feet, electric work, carpentry, millwork, new floors, plumbing. Contract awarded to Frank B. Heston, Churchville, Pa.

NEW JERSEY
Construction News

Apartment House, Ventnor, N. J. Architect, Samuel Abramson, 2315 Market street, Philadelphia. Owner, Mrs. F. Grotz, care of architect. Brick and terra cotta, 3 stories, 33x83 feet, Spanish tile roof, hardwood floors, hot water heating, electric lighting. Plans in progress. Architect will be ready for bids in two weeks.

Building, Market street, Camden, N. J. Architects, Ballinger & Co., Twelfth and Chestnut streets, Philadelphia. Owners, J. B. Van Sciver Co., Camden, N. J. Plans in progress. Too early for details.

Factory, Newark, N. J. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, A. B. Nassib, 295 Fifth avenue, New York City. Brick, 2 stories, 75x200 feet, slag roof, concrete floors, hollow tile, electric elevators, concrete and cement work, rolled steel sash, hollow metal skylights, steam heat, electric lighting, plumbing. Plans in progress. Architect will be ready for bids in two weeks.

Stores and Apartments, Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, E. L. Williams, Cinnaminson National Bank, Riverton, N. J. Brick and hollow tile, 2 stories, 60x95 feet, slag roof, hardwood floors, hot water heating, electric light. Plans in progress.

Office (alts.), 42 West State street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Dr. Peplow, on premises. General interior alterations, electric lighting, tile work, plumbing. Plans in progress.

Temple Swimming Pool, Carroll and East State street, Trenton, N. J. Architect, Walter Hankin, 241 S. Warren street, Trenton, N. J. Owners, Labor Organization of Mercer County, care of architect. Steel and reinforced concrete, 7 stories, 72x134 feet, concrete foundations, felt slag roof, hollow tile, hardwood and tile floors, metal lath, steam heat, electric light, tile, marble work, terrazzo work, metal lath, (3) elevators, roof ventilators, rolled steel skylights, fire doors, water and dampproofing. Architect will take bids February 1st.

Residences (3), Olden avenue, Trenton, N. J., $10,500. Architect, private plans. Owner, W. Musson, 1002 Hamilton street, Trenton, N. J. Brick, 2 stories, 14x44 feet, slate roof, pine floors, steam heating, electric lighting. Owner will build.

Residence, 132 Brown street, Trenton, N. J. Architect, private plans. Owner, Frank F. Bael, 1063 South Brown street, Trenton, N. J. Frame, 1½ stories, 18x36 feet, slate roof, pine floors, electric lighting. Owner will build.

Store (alts.), 11 West State street, Trenton, N. J. Architect, William Kleman, First

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National Bank Building, Trenton, N. J. Owner, W. Scott Taylor, Perry and Broad streets, Trenton, N. J. General alterations, steam heat, electric light, tile and marble work, hollow metal skylights, marble floors. Owner taking sub-bids.

School (fire restoration), Walnut street, Woodbury, N. J. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education, care of W. B. Wooley, Woodbury, N. J. Brick work, carpentry, mill work, demolition, metal lath, plastering, painting, glazing, iron and steel work. Lowest bidder: John T. Allen, Woodbury, N. J., $6,480.

Apartments, (12), New Jersey and Oriental Avenues, Atlantic City, N. J. Architect, J. R. Odgen, 148 South Carolina Avenue, Atlantic City, N. J. Owner, Max Dolinsky, 1308 Pacific Avenue, Atlantic City, N. J. Brick, 3 stories. Architect selected.

Residence and Garage, Ventnor, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, Albert Toye, 45 North Jackson street, Ventnor, N. J. Brick, stucco, 2½ stories, 37x49 feet, hardwood floors, electric light, tile work. Plans in progres.

Church, Victoria and Ventnor, Avenues, Ventnor, N. J. Architect, V. B. Smith. Guarantee Trust Building, Atlantic City. Owner, First Congregational Church, M. R. Roulson, Frankford and Ventnor Avenues, Ventnor, N. J. Stone or brick, 1 story, 45x65 feet. Plans in progress.

Apartment, Ventnor, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, name witheld. Brick, 2 stories, 24x60 feet, slag roof, pine floors, steam heat, electric light. Plans in progress.

Apartment, Atlantic and Raleigh Avenues, Atlantic City, N. J. Architect, H. A. Stout, Guaranee Trust Building, Atlantic City, N. J. Owner, Miss Marne, care of architect. Brick, 2 stories, 17x80 feet, hardwood floors, electric light, tile work. Plans in progress.

Garage, Location withheld. Architect, L. R. Barber, Guarantee Trust Building, Atlantic City. Owner, name witheld. Brick, steel, concrete, 2 stories, 65x165 feet, slag roof, concrete floors, electric light. Plans in progress.

Garage, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Marlborough Blen heim, care of Architect. Brick, steel, concrete, 2 stories, 60x160 feet, slag roof, concrete floors, electric light. Plans in progress.

Residences (2), Woodstown, N. J.. Architect, W. L. Custer, Law Building, Camden, N. J. Owner, J. P & R. Leop, care of architect. Hollow tile, 2½ stories, 43x25 feet and 18x15 feet, tile roof, hardwood floors, hot water heating, electric lighting, tile work. Architect taking bids due Jan. 14th.

Church (alts.), and Parsonage, Twenty-second and High Ave., Camden, N. J. Architect, Mr. Gill, Law Building, Camden, N. J. Owner, Calvary M. P. Church, care of Architect. Hollow tile, stucco, 2 stories, 20x45 feet, asbestos roof, hardwood floors, steam heat, electric light. Plans in progress.

Garage and Apartment, North Michigan Ave., Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, Jacob Rimkiefsky, 25 S. Texas Avenue, Atlantic City, N. J. Brick, 2 stories, 149x50 feet, slag roof, composition floors, electric light, rolled steel skylights. Owner ready for bids.

Apartment and Store, (alts. and add.), 1512 Pacific Ave., Atlantic City. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, M. M. Parlowe, care of architect. Brick, 3 stories, 25x80 feet, raising roof, 1 story, slag roof, pine floors, electric light, tile work. Architect taking bids due January 14th. Josiah Conover, Venice Park, N. J.; Smith & Ryder, Absecon, N. J.; James Yates, Pleasantville, N. J.; Paul Hammerman, 30 North Bellevue Avenue and Newton Knauer, 39 New York Ave, both of Atlantic City, N. J., are figuring.

Cottage, (alts. and add.), Atlantic City, N. J. Architect, J. R. Odgen, 143 South Carolina Avenue, Atlantic City. Owner, M. Finkelstein, 107 North Virginia Avenue, Atlantic City. Brick, 3 stories, 20x15½ feet, slag roof, pine floors, hot water heat, electric light. Owner taking sub-bids.

..**Apartment Building**, South Sovereign Ave., Atlantic City, N. J. Architect, L. R. Barber, Guarantee Trust Building, Atlantic City. Owner, H. A. Marshall, 4915 Ventnor Ave., Ventnor, N. J. Brick, 3 stories, 30x100 feet, slag roof, hardwood floors, electric light, tile work. Owner will sub-let.

Apartment House, Ocean City, N. J. Architect, Adin B. Lacey, 1012 Walnut street, Philadelphia. Owner, J. Frank Schellenberger, care of Architect. Brick and terra cotta, 3 stories, 75x72 feet, slate roof, pine floors, hollow tile, metal lath, iron work, tile work, electric work, plumbing. Architect taking bids due January 16th. J. S. Rogers Co., Drexel Building, F. E. Wallace, 1220 Chancellor street, Philadelphia; Joseph Champion, Ocean City, N. J.; and L. Leslie Headley, Ocean City, N. J., are figuring.

Apartment Houses, (4), Adriatic avenue, near New Hampshire avenue, Atlantic City, N. J. Architects, Tunis & Genther, Real Estate Trust Building, Philadelphia. Owner, Chas. Nemcof, 21 West 3rd street, Philadelphia. Tapesty brick and stucco, 3 stories will each contain 4 apartments, slag roof, hardwood floors, hot water heat, electric light, tile work, plumbing, iron work, signal system. Owner is ready for bids and sub-bids.

New Jersey Contracts Awarded

Dormitories (Walter Foulke and Howard Henry, Princeton, N. J. Architects, Zantzinger, Borie and Medary, 112 South Sixteenth street, Philadelphia. Owners, Princeton University, Princeton, N. J. Brick, stone and steel, 3½ stories, 130x41 feet, wings, 50x28 feet, and 23x51 feet, and 3 stories, 139x27 feet, and 52x64 feet, slate roof, pine floors, hollow tile, terrazzo work, Bond, ornamental iron work, (heating, plumbing, electric work, roof, tile and marble work, reserved). Contract awarded to Matthews Const. Co., Princeton, N. J.

Bakery, (add.), 1410 Atlantic Avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Atlantic Delicattessen Co., 1410 Atlantic Ave. Brick, steel, reinforced concrete,



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3 stories, 25x58 feet, slag roof, concrete floors, electric light, freight elevators, hollow metal sash and skylights, roof ventilators. Contract awarded to U. S. Const Co., 2201 Arctic Avenue, Atlantic City.

Apartments, (alts. and add.), New Hampshirde and Oriental Avenues. Architect, J. R. Odgen, 143 South Carolina Avenue, Atlantic City, N. J. Owner, P. R. Conway, on premises. Brick, steel, 4 stories, irregular size, slag roof, hardwood floors, electric light, tile and marble work, interior alterations. Contract awarded to Max Delinky, 1308 Pacific Avenue, Atlantic City.

Garage, Arctic and Missouri Ave.. (rear) Atlantic City, N. J. Architect, J. R. Odgen, 143 South Carolina Avenue, Atalntic City. Owner, David Betchen, on premises. Brick, steel, stone, 1 story, 58x78 feet, stone foundation, demolition, slag roof, concrete floors, steam heat, electric light. Contract awarded to Yarmov & Shenkman, Guarantee Trust Building, Atlantic City, N. J.

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Residence and Store, 605½ Whittaker street, Trenton, $4,500. Architect, private plans. Owner, Crasper Missinel, on premises. Brick, 3 stories, 19x52 feet, tin roof, pine floors, steam heat, electric light. Contract awarded to Antonio Angelletti, Trenton, N. J.

Miscellaneous Construction News

Residences (9), Wilmington, Del. Architect, John D. Thompson, Ford Building, Wilmington, Del. Owner, Clarence W. McCaulley, College Inn, Wilmington, Del. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Architect taking sub-bids due January 16th.

Residence, Lincoln, Neb. Architect, Albert Kelsey, Perry Building, Philadelphia. Owner, Roscoe L. Smith, Lincoln, Neb. Brick, stucco, 1 story, 78x93 feet, Spanish tile roof, birch floors, hot water heat, electric lighting, tile and marble work. Plans in progress.

Residence, Seventy-first street and Fifth avenue, New York City. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Alexander Hamilton Rice, New York City. Stone, 3 stories. Architect taking bids due January 17th at noon. Whitney Co., 101 Park avenue; Jacob & Youngs, 116 West Thirty-second street; George A. Fuller Co., 949 Broadway; John T. Brady & Co., 103 Park avenue; M. Reid & Co., 114 West Thirty-ninth street; Charles T. Wills, Inc., 286 Fifth avenue, and John Lowry, Jr., 8 West Fortieth street, New York City, are figuring.

Masonic Home, near Wilmington, Del. Architect, C. R. Hope, Wilmington, Del., Dupont Building. Owners, Masonic Order, care of W. Highfield, 226 West Ninth street, Wilmington, Del. Stone, 2 stories, 35x115 feet, slate roof, composition and oak floors (plumbing, heating and electric work reserved). Architect has received bids.

Residence and Garage, Wilmington, Del., $19,000. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, Max Breuer, 1409 Van Buren street, Wilmington, Del. Brick, 2½ stories and basement, 42x45 feet, garage, brick, 24x20 feet, 10 feet high, cement floor, weathering green slate roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Charles H. Tindall & Son, Wilmington, Del.

Hotel, Frederick, Md. Architect, Federick Weber, Morris Building, Philadelphia. Owner, Frederick Hotel Co., care of Henry F. Copeland, President, Frederick, Md. Brick, concrete, steel, terra cotta, 7 stories and basement, 120x120 feet. Contract awarded to John S. Hershey, Stephen Girard Building. Philadelphia, who is taking sub-bids.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 7, 1922, Separate Sealed Proposals will be opened in this office at 3 P. M., January 25, 1922, for the installation of an ice making and refrigerating plant in the main hospital building for the U. S. Public Health Service Hospital, Norfolk, Va., Tanner's Creek Site. Drawing and specification may be obtained at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 5, 1922.—Sealed proposals will be opened in this office at 3 P. M., Feb. 6, 1922, for the mechanical equipment complete (except elevators and lighting fixtures) of the Infirmary, Wing "A" and "B," and certain outside services and separate proposals for the construction, including approaches, in accordance with drawings and specifications which may be obtained from the Medical Officer in Charge at Oteen, N. C., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

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A FALSE STATEMENT CORRECTED

To the General Public:

My attention has been drawn to the numerous false statements being spread throughout building and construction circles to the effect that the Madison Square Garden Swimming Pool was designed and constructed by persons other than the ones who did the work and who deserve the credit.

Mr. J. Franklin Whitman, a waterproofing engineer and President of the Aquabar Waterproofing Products, of #489 Fifth Ave., New York City and #36 N. Delaware Ave., Phila., Pa., not only designed this pool under my directions, but personally superintended its construction.

It gives me much pleasure to announce this fact because of the very satisfactory and efficient manner in which the entire work was carried out. The construction of the pool and the installation of the mechanical plant was completed in thirty-nine (39) days, a remarkably short time. It was quite a difficult piece of engineering, as the floor of the pool was designed to be used for other athletic events during the winter season. Mr. Whitman succeeded admirably in incorporating my ideas in his design, carrying out the most minute details in a practical way.

Respectfully yours,

T. Rickard

AS THE EDITOR SEES IT

(Continued from page 20)

There is hope that the most important obstacles in the way of larger trade will be removed during the early part of 1922. Cheaper transportation and stabilized wage scales are sure to come. Progressive railroad executives and thinking wage earners no longer ignore the indisputable fact that upon their action depends the welfare of the farmer, the manufacturer and the public. A reasonable reduction in freight rates will lower the cost of living, cause a nation-wide demand for commodities of every description, and give immediate employment to the vast army of jobless.

The fall of money rates, which began in October, has already made itself felt in a gratifying demand for industrial securities, and it is probable that within a short tme plant owners will be able to secure all the funds they need for expansion and building purposes at reasonable rates. Bonds of many utility corporations which only a short time ago had to be sold to yield 7½ to 8½ per cent. now find a ready market at a rate yielding a trifle less than 6 per cent.

Industrial building will receive a tremendous impetus as soon as manufacturing corporations can obtain money at 6 per cent., which according to respectable financial authorities, is the maximum charge business should be called upon to assume. The load which industry has been carrying in the way of interest charges has been staggering, and the relief already in sight will contribute much to the revival of production in all lines.

The reaction from war activity, severe as it was, has left American business in a strategic position, as far as world trade is concerned, and if the foreign field is cultivated with the same degree of intensiveness as the domestic markets there is no reason why, within a few years, American manufactures, already the most popular in many distant lands, should not be found in every corner of the globe. All that is needed to bring this about is a more careful study of foreign requirements and the establishment of purely American selling agencies.

* * *

Taking the good with the bad, the prospects for 1922 justify the impression that it will be a splendid business year. Indeed, the corner has been turned. With capital and labor realizing more than ever before their dependence upon each other, with a general wage revision program, reduced transportation costs, and generous farm crops in sight, are we not justified in looking into the future with light hearts, with faith in the fairness, enterprise and good will of the nation's planners and workers, whether employed in office, shop, store, in mines or in the fields?

* * *

Secretary Hoover recently made the statement that "the economic situation for the new year holds much good promise. Our year of liquidation is over and we can look forward to a year of recuperation. Except for the seasonal air of the winter we should have a continuous lessening of unemployment and an increasing betterment in the agricultural situation. We have passed through the most precipitous price drop in our history, a drop averaging nearly 50 per cent. and necessitating the writing of something ovr $20,000,000,000 off our books as a Nation during 1921. We have gotten through the credit strain that has been involved in this violent writing down of national inventories; we have absorbed the enormous surplus of goods carried over from the post-war boom; we are on much sounder foundations.

"We have still a good many readjustments to be made, due to the inequality in the fall of prices and wages. The farmer has fallen too much. Some of the industries, such as coal, railways and construction, are far above the average levels of the country, but economic pressures, although painful, are in motion which will eventually reduce the expense and the charges of these industries against the community."

* * *

Richard Spillane, in the Philadelphia *Public Ledger,* gave a very sane resume of the situation and said in part,

Retrospect is not so attractive to the American business man as prospect. Prophecy is likely to confound the prophet, but if a prophet sought to predict the business of 1922, he possibly would take some of the following facts into consideration first.

There is only one very weak link in the chain of American industry. That is the farm. The buying power of the agriculturist is small. The farmer makes the

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Wards	1	17	21	22	23	24	25	27	28	29	33	34	35	36	37	38	40	41	42	43	44	45	46	48	Totals
January	..	..	..	..	..	..	..	..	..	..	..	4	..	1	..	..	..	4	32	..	..	..	..	..	41
February	..	..	1	4	..	..	..	..	..	..	1	..	4	..	..	..	10	3	1	..	..	..	..	..	24
March	1	..	..	58	4	..	..	..	..	..	..	..	2	..	..	..	48	..	16	..	..	1	..	..	130
April	..	..	1	2	2	..	..	1	..	..	1	1	4	4	1	29	3	9	56	..	1	2	..	..	117
May	..	..	..	2	1	..	..	..	..	..	12	23	6	..	..	1	5	3	50	..	..	..	..	..	103
June	..	..	1	..	17	7	11	..	..	..	..	1	12	..	..	..	30	3	30	..	..	1	7	..	120
July	..	..	4	1	..	..	..	..	..	..	1	1	10	..	..	..	26	1	48	22	..	3	20	50	187
August	..	1	2	6	16	..	..	..	4	..	..	..	14	..	..	..	18	6	50	1	..	..	..	25	143
Sept.	..	..	..	1	85	11	..	..	..	25	..	..	27	5	81	..	24	25	48	..	..	..	41	..	373
October	..	..	..	20	1	4	..	..	..	6	..	31	15	..	..	9	77	7	91	1	..	1	12	1	276
November	..	..	1	11	1	..	..	..	..	15	22	90	14	..	..	..	2	1	70	4	..	..	..	..	231
December	..	..	..	22	..	..	2	..	..	7	1	31	..	..	..	..	9	..	95	..	..	..	..	..	167
Totals	1	1	11	211	53	11	13	1	29	28	38	209	86	86	1	39	252	62	587	28	1	8	80	76	1912

THREE-STORY DWELLINGS—Including Three-story Stores and Dwellings **Erected in 1921**

Wards.	2	3	4	7	8	18	19	21	22	23	26	29	30	34	35	36	39	40	41	42	46	Totals
January	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2
February	..	..	1	2	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..	..	..	7
March	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	2	..	3
April	1	..	1	1	..	..	..	..	..	..	1	..	..	11	..	..	..	..	..	1	..	16
May	..	..	1	..	..	..	..	..	4	..	..	..	..	1	8	..	..	1	..	..	13	28
June	..	..	..	..	..	..	1	2	2	..	..	..	..	2	1	..	..	1	..	5	..	14
July	1	..	..	..	..	..	1	..	4	2	..	..	..	1	2	..	..	..	..	2	..	13
August	..	..	1	..	..	..	..	1	2	..	..	..	..	8	3	..	..	1	..	..	..	16
September	..	..	..	..	2	..	..	..	22	2	..	..	1	6	2	..	..	1	2	4	..	42
October	..	..	..	..	..	..	..	1	20	..	..	2	..	1	2	..	..	..	..	3	..	29
November	..	..	..	..	1	1	..	1	4	..	..	..	..	..	1	1	1	..	..	35	..	45
December	..	..	..	..	..	..	..	..	4	..	..	..	..	..	2	..	..	..	..	1	..	7
Totals	2	1	4	3	3	1	2	5	66	4	1	2	1	30	23	1	1	4	2	53	13	222

largest unit in the American family. Good crops at fair prices in 1922 would be of incalculable value to the country. By reason of the farmers' financial weakness all industries depending largely on the farm for their outlet must have restricted sales this year.

Railroads are steadily working into a stronger position financially. Their purchases in the new year will be good. This means much for steel, lumber and many other industries.

Textiles look as if they will be in strong demand. Retailers the country over are carrying very small stock. Warehouses are empty. This means imperative buying for each recurring season. There is danger of shortage of raw cotton before the next crop is grown. The world's supply of cotton is abnormally small.

Copper production is considerably below copper consumption. If consumption continues at the present rate, the copper mines, long shut down, should be in active operation in the second if not the first quarter of the year.

The buying habits of the people have changed within the last two years. This is particularly marked in department-store trade. Buyers now scrutinize the goods. Also they study prices. They want to "be shown."

Stocks of material of every kind and character held by middlemen are very low. In other words, there is a tremendous amount of stuff needed to make up the supplies ordinarily carried and which probably will be carried as improvement in conditions becomes more marked.

The country is richer than most persons know and money never was so well and widely distributed. One evidence is in the fact that savings banks' deposits, despite the trying times of the last year and a half or two years, are but little below the highest in history.

Strikes are not so many and cannot be. The times are not propitious. Strikes are most plentiful in flush time. The wastes due to strikes are colossal. The absence of strikes mean economy.

Nothing more effective as proof of the great improvement in conditions basically is furnished than in the reduction in unemployment, despite the season when much of the labor of farm, of forest and various outdoor tasks is congregated in cities for the winter.

Construction prospects for the new year are unusually good. In some branches of the building industry enthusiastic souls declare the year will be "the best ever." If it is well above the average they should be content. Abnormal activity brings bad results usually.

Lumber is in better position than for many years.

Automobiles—Prospects not bright. The impaired financial state of the agriculturists, which, to a degree, affects many industries, has a bearing on this.

Cheaper money—Inevitably, although there are occasional checks and at times a rebound, the interest rate is going down.

Foreign trade—By no means good, but much larger than would be supposed from the reports of its collapse.

* * *

The whole story is summed up practically in the fact that the country is recuperating after the very severe attack of the thing that ailed it and which it "caught" in the war days and which went to its head in the post-war days.

After every war it is so with the people who have been engaged. And there never was a war like the one of recent date.

Americans scarcely appreciate what a tremedous change it made in their position momentarily. Before the war America was a debtor to Europe through stock and bonds and other holdings of American securities abroad to the extent of $5,000,000,000.

America came out of the war a creditor nation to the extent of more than $10,000,000,000.

* * *

DISCUSSION has been rife of late regarding the deveolpment of a plan to render construction less of a seasonal industry. It has been suggested that one remedy is to start public works in the fall, but this would be only a partial remedy, not a complete cure. We have taken up this question in these columns from various angles and are always looking for new ideas that may throw light on this vexing and serious problem. A recent issue of a monthly bulletin published by David Lupton's Sons Co., contains a suggestion for stabilizing building.

The general opinion is that building costs will not go lower for the next six months at least. The expected tendency for some years is slowly downward; but the gain from waiting will in most cases be offset by loss of profits.

The labor situation is easier, though still far from satisfactory. In most localities the building trades have accepted moderate wage cuts, and are fairly well employed. In Chicago seven trades are holding out against the Landis award, and a strong organization of citizenus has been formed to force it. Other cities with arbitration agreements, such as Cleveland, are getting along fairly well, though the awards are very reluctantly accepted by the unions. Boston and San Francisco follow the open shop.

Recognition of the Open Shop principle in the new rules by the U. S. Railroad Labor Board, governing railroad shop employes, emphasizes the present tendency to give first place to the public's interest in labor disputes.

When we compare the chronic unrest in the building industry with the comparative peace in manufacturing industries, we find that it arises in a quite natural way from the conditions under which building is conducted.

Chief of these is the seasonal nature of most buiding. Since it costs a little less to build in summer than in winter, owners incline to let contracts in the early spring. This leads to a human preference on the part of labor for making wage agreements after contracts have been let; i. e., usually May 1. The resultant uncertainty makes both the owner and the contractor hesitate to sign contracts until wages have been fixed, thereby intensifying the seasonal tendency.

The final result is that labor is largely idle during the winter; contractors must earn their winter overheads during the summer; and with largely transient contact on both sides neither feels any great interest in the other's problems. Hence it is hardly strange that both employers and workers feel that self-protction requires them to do things which do not commonly occur in industries whose workers have fixed jobs, fixed homes, and some understanding of their employer's needs.

Not only do contractors and workers find themselves burdened with the high costs of seasonal employment, but the material manufacturers likewise must choose between manufacturing for stock during dull months and laying off part of their help.

All this complicated chain results from the difference in cost of construction between winter and summer. If that cost could be equalized to the owner, so that he could start building at any season without added expense, building would immediately become an all-year occupation. The employer would keep his men, the workers would keep their jobs, the peak cost of summer building would be leveled, and everybody would be the gainer through the more uniform distribution of cost and effort.

This condition could be brought about by a joint agreement of material makers, labor, and building contractors to maintain a graduated scale of prices, wages and profits, with just enough difference between the winter and summer scales to offset the difference in cost of building.

Ways are frequently found to reduce this difference in cost; but whether it be high or low, any difference necessary in scales would be cheaper than chronic winter unemployment.

PHILADELPHIA AS A BUILDING CENTER

Number of New Buildings Erected from January 1st to December 31st, 1921

	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Operations.	Estimated Cost.
Amusement, Places of	..	..	1	2	2	1	..	..	1	1	..	..	8	$555,000
Banks	..	..	..	1	..	1	1	..	1	1	2	..	7	260,000
Convents	..	..	..	2	..	1	..	..	1	1	..	..	5	409,570
Churches	1	..	..	..	..	3	6	3	3	1	3	2	22	884,995
Club Houses	..	..	..	1	1	..	..	1	..	..	..	..	3	175,000
Dwellings, one-story	..	..	..	5	4	6	2	4	5	1	3	1	31	73,400
" two-story	41	24	130	117	103	120	187	143	373	276	231	167	1,912	9,184,265
" three-story	2	7	3	16	28	14	13	16	42	29	45	7	222	2,553,550
" four-story	..	..	..	..	..	1	..	..	..	..	..	..	1	21,000
" frame	1	3	5	16	3	7	3	15	10	5	4	6	78	316,895
Engine and Boiler Houses	..	1	1	..	1	..	..	..	..	..	..	1	4	29,000
Garages	35	79	134	138	158	183	122	157	159	184	142	78	1,569	3,505,695
Halls	..	..	..	..	..	..	..	..	..	1	1	..	2	62,000
Hospitals	..	1	..	..	..	1	1	..	..	..	..	1	4	858,000
Hotels	1	..	..	..	..	..	..	..	..	..	..	..	1	10,000
Libraries	..	..	..	..	..	..	..	1	..	..	..	..	1	77,000
Manufactories	2	11	..	7	2	3	5	6	7	5	16	3	67	2,697,690
Municipal Buildings	..	..	..		..	2	1	..	..	2	..	1	6	284,200
Miscellaneous Buildings	7	6	27	25	26	20	15	13	17	17	20	13	206	253,255
Office Buildings	2	..	1	4	1	3	2	4	2	4	3	3	29	1,451,600
Power Houses	..	..	..	..	1	..	..	..	..	..	3	..	4	147,615
Railroad Stations	..	..	1	..	1	..	..	..	..	..	2	..	4	172,000
Schools	..	..	..	..	..	1	..	..	1	1	..	1	4	975,995
Stables	1	2	..	1	1	..	..	2	1	1	3	3	15	85,300
Stores	..	8	6	14	7	14	5	12	6	3	7	1	83	707,230
Tenement Houses	..	..	1	2	..	..	1	3	..	2	5	1	15	810,000
Warehouses	2	..	5	2	1	3	1	3	2	5	4	5	33	576,250
Workshops	3	6	9	9	7	18	10	11	8	16	8	13	118	471,950
Welfare Buildings	1	..	..	..	..	..	..	..	..	..	..	..	1	80,000
Total New Buildings	99	148	324	362	347	402	375	394	639	556	502	307	4,455	27,688,455
Additions	71	114	258	225	280	254	223	302	277	294	193	147	2,638	7,818,795
Alterations and Repairs	272	274	466	498	473	508	479	456	419	441	327	289	4,902	6,459,705
Grand Total													11,995	41,966,955
Fire Escapes													125	101,935
Heaters													152	107,675
Signs													567	205,820
Miscellaneous Work													1,815	408,395
Total work of all kinds													14,654	42,790,780

DAILY BUILDING NEWS

"Service That is Service"

You receive every morning names and addresses of prospective buyers of your goods—you are advised where to secure an order—when to close a contract.

NO GROPING IN THE DARK

You don't wander from pillar to post seeking some one that ***might*** be interested in your products or ***might*** "have something new." Your prospects are ***real*** when you have every morning

DAILY BUILDING NEWS.

One job—one sale in a year—closed through the DAILY BUILDING NEWS will net you many times its cost. What an economy to know of all the work being planned, figured on and awarded! You save all the time wasted running down rumors.

Subscribers to the DAILY BUILDING NEWS find that the promptness with which their telephone inquiries are answered and the importance of securing this desired information quickly, are worth more than the cost of the DAILY BUILDING NEWS.

May we show you how to use profitably the advance reliable DAILY BUILDING NEWS? Call or phone and request samples or representative.

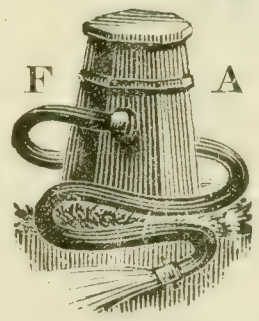
DAILY BUILDING NEWS

PERRY BUILDING : : : PHILADELPHIA

BELL PHONE: SPRUCE 16-11 **KEYSTONE PHONE: RACE 71-09**

Fire Association

OF PHILADELPHIA



Organized Sept. 1, 1817
Incorporated March 27, 1820

PERPETUAL CHARTER

Capital, $1,000,000.00
Assets, $16,226,190.00

Officers

E. C. IRVIN, President
J. H. COCHRAN, Vice-President
JOHN B. MORTON, 2nd Vice-President
M. G. GARRIGUES, Sec. and Treas.
R. N. KELLY, Jr., Asst. Secretary

Directors

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J. H. COCHRAN
JAMES BUTTERWORTH
ROBERT WHITAKER
CHAS. B. ADAMSON
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DIMNER BEEBER
GEO. W. NEVIL
WM. A. LAW
EDWARD J. MOORE
JOHN GRIBBEL
C. FREDRICK C. STOUT
LIVINGSTON E. JONES

Office: COMPANY'S BUILDING
N. W. Cor. 4th and Walnut Sts., Philadelphia, Pa.

HENRY M. GRATZ, President
DANIEL H. DUNHAM, NEAL BASSETT, Vice-Presidents
DAVIS G. VAUGHAN, Secretary
ALBERT H. HASSINGER, CHAS. J. FITZGERALD, Asst. Secretaries
JOHN KAY, Treasurer
ALBERT H. HASSINGER, Assistant Treasurer
MORRISON C. COLYER, Counsel

THE GIRARD

Fire and Marine Insurance Company

502 WALNUT STREET

PHILADELPHIA

Assets - - - $4,006,570.38

DIRECTORS

Henry M. Gratz
John C. Lowry
William R. Nicholson
Franklin M. Potts
Edward J. Thomason
C. S. W. Packard
Daniel H. Dunham
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John Kay
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J. Harker Chadwick
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Percy Jackson
Samuel W. Baldwin
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THE Fourth Street National Bank

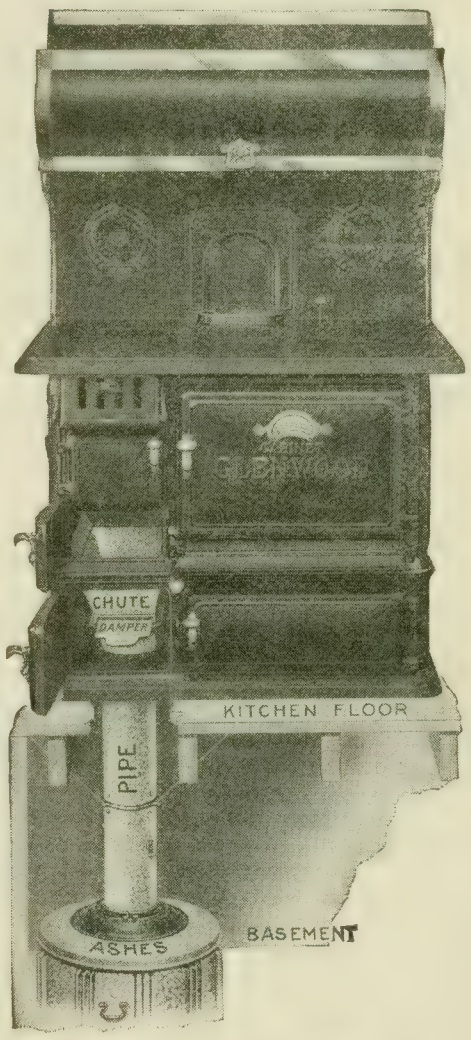
131-145 SOUTH FOURTH STREET

PHILADELPHIA

invites accounts from corporations, firms and individuals

Capital, Surplus and Profits
Over $11,000,000

No More Ashes To Lug



No clumsy pan to spill dust and dirt on the kitchen floor

The Glenwood Ash Chute

solves the problem. It is located just beneath the grate and connected by a sheet iron pipe straight down through the kitchen floor to ash barrel in cellar. No part is in sight. Not a particle of dust can escape. Just slide the damper once each day and drop the ashes directly into the ash barrel.

The Dust-Tight Cover

to barrel is another entirely new Glenwood Idea and is very ingenious. This is only one of the splendid improvements of the new plain

Cabinet Glenwood

the Range without ornamentation or fancy nickel, "The Mission Style" Glenwood. Every essential refined and improved upon. This Range can be had with the latest and most improved Elevated or End Gas Range attachments. It can be furnished with fire box at either right or left of oven as ordered. Our handsome booklet tells all about it.

The Cabinet Glenwood

Henry M. Miller, 46 48-50 North Second St., Philadelphia, Sales Agent

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Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
1927 Market St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Photostat Service Corporation,
North American Bldg., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' HARDWARE.
Soeffing, Adolph, & Co. .....833 Arch St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Mineraloid Flooring Co. ....524 Drexel Bldg., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products,
36 N. Delaware Ave., Phila.
Barrett Co., The.....New York and Philadelphia
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co.....Bulletin Bldg., Phila.

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Keystone Blue Paper Co. .....910 Filbert St., Phila.
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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

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Baird-Osterhout Const. Co..1620 Chancellor St., Phila.
Woodward, George, Jr. .....1723 Sansom St., Phila.

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Keystone Blue Paper Co. .....910 Filbert St., Phila.
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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

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Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIRE BRICK.
Fitzgerald, J. J., & Co...2nd and Butler Sts., Phila.

FIREPROOFING.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR PLATES.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.
Fitzgerald, J. J., & Co...2nd and Butler Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GASTEAM.
Carkeek, H. T. .....824 Walnut St., Phila.

GAS WATER HEATERS.
Hoffman Water Heater Co. ....824 Wanut St., Phila.

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Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HARDWARE (Builders').
Soeffing, Adolph, Co. .....833 Arch St., Phila.

HARDWOOD FLOORS.
Geiger, A. F..S. E. Cor. Felton and Media Sts., Phila.
Herbert, W. A., & Son....5430 Haverford Ave., Phila.

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Kane & Co. .....1226 N. 9th St., Phila.

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Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Austin, Gorham, McIlvaine & Co., Inc.,
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Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

INSULATION.
Austin, Gorham McIlvaine & Co., Inc.,
1816 Ludlow St., Phila.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE.
Insurance Co. of North America,
3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....319 Vine St., Phila.
Lederle, Robt. B. .....Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

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Whiteman, C. S. .....717 Walnut St., Phila.

LEVELS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

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Anodion Metal Co. .....1526 Walnut St., Phila.

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Lederle, Robt. B.....Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co.,
9th and Montgomery Ave., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.

LUMBER.
Felin, Chas. F., & Co.,
Old York Road, above Butler St., Phila.
Haney-White Co. .....17th and Glenwood, Phila.
Irwin, James M., & Co. .....976 N. 8th St., Phila.
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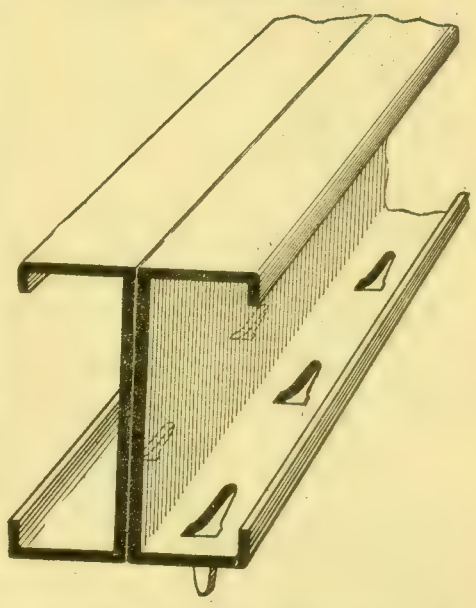
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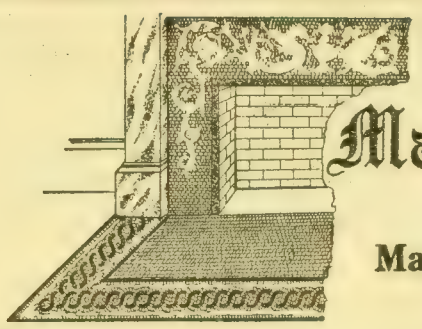


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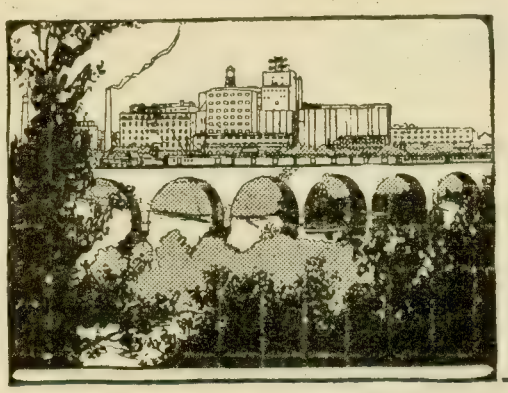
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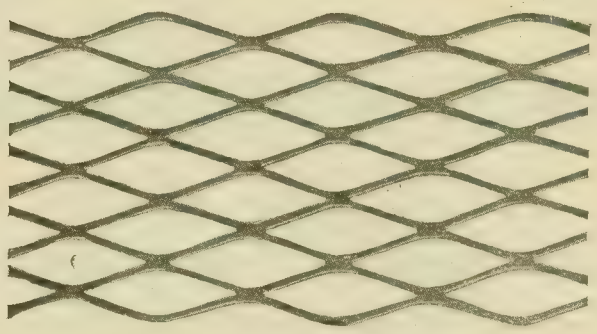
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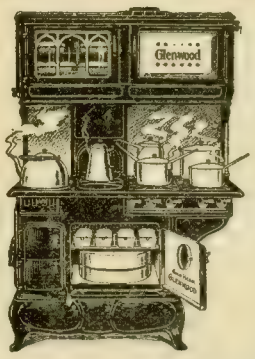
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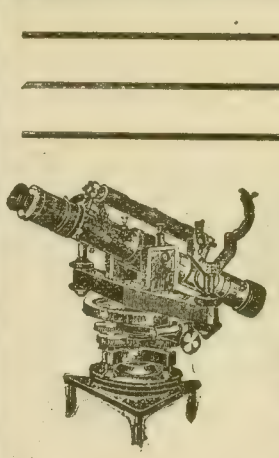
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 3

PHILADELPHIA
January 18, 1922

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As The Editor Sees It

TOO much emphasis cannot be laid on the terrific waste caused in this country by fire. This great loss to the nation reaches such staggering figures that any dimunition in the causes of fires is always worthy of consideration. Chimneys and flues, a vital factor in construction work, very frequently receive insufficient consideration and thus become a major cause of fire.

Of the four divisions into which heating plants are divided in the list of fire causes drawn up by the Actuarial Underwriters, that of *Defective Chimneys and Flues* is responsible for the heaviest property losses. It stands third in the list of major fire causes. *Electricity* and *Matches-Smoking* being the leaders.

During the six years from 1915 to 1920 this "strictly preventable" fire hazard was the cause of $71,037,084 worth of material wealth being destroyed. Allowing 25% for unreported losses and those upon uninsured property, the total is increased to $88,796,355, which is considered a conservative estimate of the actual losses.

The hazard is one that is thoroughly recognized by state fire marshals, fire prevention engineers, fire chiefs and other competent authorities. Fire chiefs know, as each winter season approaches, that they must look forward to fighting a multitude of fires originating in defective chimneys and flues. Many, in fact, carry out regular campaigns of educational publicity aimed to reduce the losses from this cause. Last year a fire chief in an Ohio city condemned and had torn down seventeen chimneys that he considered particularly dangerous.

Bad construction is held to be the chief reason for the heavy damage from the chimney and flue hazard, although carelessness is responsible for much of the trouble. Carelessness figures in the situation when lack of cleaning causes a flue to overheat and start a fire, and when necesary repairs are neglected. Also, when unused flue holes are stopped with papers, rags, boards and other inflammable materials instead of with a metal cap securely held in place.

Last winter a Columbus, Ohio, woman lost her two children in a fire due to an unprotected flue opening. The children were alone in the house when the fire occurred.

Statistics show that over 12% of dwelling house fire losses originate from defective chimneys and flues, but the hazard is also marked in many mercantile establishments and small town factories of inferior construction.

School houses, too, have suffered many chimney and flue fires. Just a few days ago at Isabel, Kansas, the high school was gutted by such a fire, the loss of some $80,000 being offset by only $48,000 of insurance.

The flue is the draught duct leading through the chimney and is conected to the stove or furnace by the smoke-pipe. When flues are improperly lined or chimneys are constructed upon unsafe specifications, sooner or later fire is liable to ensue.

The reasons why chimneys are such a fruitful source of fire have been summed up as follows:

1. Use of terra cotta sewer-pipe or other unprotected tile or hollow blocks for the chimney;

2. Construction of chimney with bricks laid on edge instead of flat;

3. Chimney walls built with brick flatwise or only one brick thick, and flues unlined;

4. Supporting chimney on the timber construction of a building or upon brackets; or insufficient masonry foundation, when the chimney rests on the ground;

5. Two or more connections to the same flue;

6. Building woodwork into the wall of a chimney, or placing it in contact with its exterior;

7. Smoke-pipes arranged to enter a chimney in vertical line;

8. Carelessness in not sealing the connection between smoke-pipe and the chimney, and failure to anchor the pipe to the chimney;

9. Carelessness in not renewing a rusted smoke-pipe and also in allowing combustible material too near the pipe;

10. Carelessness in not keeping the

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chimney clean and the joints in the brickwork properly pointed.

It often happens that old or improperly constructed chimneys develop cracks in that portion passing through the attic and thus become a continual menace. Sparks fly out into the attic and owing to the location, a fire thus started is likely to gain considerable headway before being discovered.

The combination of a dilapidated chimney and a wooden shingle roof is one of the worst fire hazards that could be devised. The sparks escape through the bricks in such a chimney and find the tinder-like wooden shingles excellent fuel for quick action. Danger also exists at the roof line when the flashing has been improperly installed or when the chimnew walls are in direct contact with the roof structure.

As a general thing, protection against fire is comparatively simple and inexpensive, and this is true also as far as safeguarding chimneys and flues is concerned.

Heavy as are the losses from this hazard, it is surprising, in view of the methods of construction prevailing in many communities, that the record is not worse than it is. In a recent defective flue fire in a Pennsylvania city, as an instance, it was found that a wooden joist ran into the flue opening, a careless building practice which is, unfortunately, only too common.

A chimney should always be solidly built upon an independent and indestructible foundation. It should never rest upon wooden construction because this will cause shrinkage and settling, with the result that the chimney is very likely to crack and permit the escape of sparks.

In some parts of the country it is a common practice to suspend a chimney from floor or roof timbers by iron hangers. This is a dangerous custom and should not be permitted.

Owing to the great need for detailed and authoritative specifications covering the safe construction of chimneys and flues, the National Board of Fire Underwriters has prepared a model ordinance for town, city or state use, and copies may be secured free of charge by those interested.

A chimney wall should never be less than 3¾ inches thick (the width of a standard size brick) and should be lined with chimney tile. This is important, since in the absence of this lining the mortar between the bricks will eventually disintegrate and fall out under the action of heat and the gases of combustion. For these reasons, plaster is not a satisfactory lining as it is sure to crack and fall off in the course of time. Fire clay chimney tile, manufactured for the purpose, is the only safe material and its use adds little to the cost of construction. Excess mortar at the tile joints should be carefully removed so that the flue will present a smooth surface which will create a good draft and keep the accumulation of soot at a minimum.

Building chimneys with bricks set on edge is dangerous as it makes thin, unstable construction that soon causes the cracking of the mortar and the development of crevices between the bricks. It is considered imperative that the bricks should be laid flatwise. The practice of building wood work into a chimney wall should never be permitted, nor should it touch the chimney, a separation of approximately two inches being necessary for safety. This applies to all floor construction, partitions, rafters, roof boards and shingles.

Where a chimney passes through a floor, the space between the floor timbers and the chimney should be filled with some porous, incombustible material, such as cinders, refuse plaster or mortar, held in place by a sheet of metal nailed to the underside of the wooden beams. Neither solid mortar nor brickwork should be used to fill the space, since they will transmit heat. Gypsum blocks sawed to fit the space constitute one of the best materials for this purpose. At the roofline sheet metal flashing, set into the joints of the brickwork and overlapping the roof boards, should be used

It may be mentioned that filling the space between the chimney and the woodwork has two important results. In the first place it prevents a fire, originating on a lower floor, from passing up behind a partition or furring into upper stories or the attic, and also avoids the possibiity of rats or mice building nests in these spaces and thus filling them with highly combustible material, which in time may be ignited from heat transmitted through the chimney wall. Woodwork frequently catches fire in this way.

It is stated in the model ordinance that a round flue will give a better draught than a square or rectangular shape having the same cross-sectional area, and it advocates using the round kind when practicable. Where such flues are placed inside rectangular chimney walls however, care must be exercised to fill completely the corner spaces. Otherwise there is likely to be a leakage of air which would detract from the draught and also increase the fire hazard.

It is advised that chimneys, both new and old, be tested by building a smudge fire at the bottom of the flue and, while the smoke is flowing freely, closing the flue at the top. The escape of smoke into other flues or through the chimney walls will indicate openings that should be closed up.

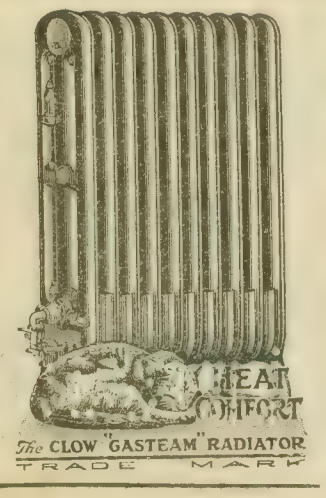


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Underground Comfort Station, MacPherson Square, Indiana avenue and F street, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Works, Bureau of Public Welfare, City Hall, Philadelphia. Brick, steel and concrete, 1 story, 32x40 feet. Plans completed. Owners ready for bids due January 26th.

Recreation Centres (2), Twenty-seventh and Clearfield streets, and East Germantown, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Property, Bureau of Recreation, City Hall, Philadelphia. Grading, paving, shelter building, etc. Plans about completed. Owners will be ready for bids in a few days.

Residence, Cliveden avenue, Germantown, Philadelphia. Owner, Samuel Krekstein, 5024 Chestnut street, Philadelphia. Brick, 2½ stories, 30x42 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work, garage, 1 story, 18x25 feet. Consulting architect and supervisor, Edw. A. Roth, Drexel Building, Philadelphia. Contract awarded to John Peters, 515 Pelham road, Germantown.

Store (alts. and add.), 215 South street, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Max Roth, on premises. Brick ,rear addition, 1 story, 20x50 feet, slag roof, composition floors, demolition, flush bulks (heating, plumbing and electric work reserved). Plans about completed. Architect will be ready for bids in a few days.

Electrical Work, Chestnut Street Pier, No. 4, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, George F. Sproule, Director, Bourse Building, Philadelphia. Owners taking bids due January 25th at noon.

Junior High Schools (3), Twenty-fourth and Snyder avenue, Third and Duncannon streets, and Fifty-fourth and Warrington avenue, Philadelphia. Architect, private plans. Owners, Board of Education, J. D. Cassell, Superintendent of Building, Nineteenth above Chestnut street, Philadelphia. Brick, concrete, steel and stone. Plans in progress. Owners will take bids in about two months.

Apartment House, location withheld, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, name withheld. Brick, 3 stories, slag roof, hardwood floors, hot water heat, tile, marble work, electric light, kitchen equipment, fire tower, iron work. Plans in progress. Architect will be ready for bids in ten days.

Parish Buildings, location withheld, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, Archdiocese of Philadelphia, Eighteenth and Race streets, Philadelphia. Stone, sizes undetermined, slate roof, cement work, tile and marble work, plastering, painting, glazing, mill work. Preliminary plans in progress.

Residence, Magee street, West of Rising Sun Lane, Philadelphia. Architect, private plans. Owners, H. J. Benzing, 716 West Allegheny avenue, Philadelphia. Brick and half timber, 2½ stories, 34x30 feet, asbestos shingle roof, pine floors, hot water heat, electric light. Plans about completed. Owner will take bids in ten days.

Garage, 2524 North Broad street, Philadelphia. Architect, Jerome S. Landes, Souderton, Pa. Owner, J. J. Gilman, 1126 Girard avenue, Philadelphia. Brick, 2 stories, 25x76 feet. Sketches drawn. Too early for details.

Auto Show Room, 114 Northeast Boulevard, Philadelphia. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owners, Hassler Shock Absorber Co., 817 North Broad street, Philadelphia. Brick and concrete, 1 story, 25x75 feet, slag roof, cement floors, metal lath, architectural terra cotta, tile work, electric lighting, steam heating. Plans in progress.

Moving Picture and (4) Stores, Kensington, Philadelphia. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, name withheld. Brick, steel and concrete, 1 story, 99x199 feet, composition roof, cement floors, steam heat, electric lighting, tile work, architectural terra cotta, ornamental iron work. Plans in progress.

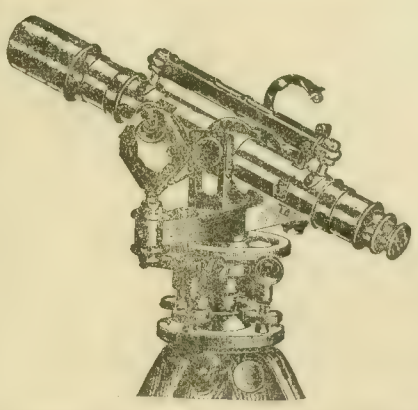
Restaurant (alts. and add.), 801-03 Passyunk avenue. Architect, M. Cappobianca, 778 South Seventh street, Philadelphia. Owner, Felix Cippolo, on premises. General alterations to 2-story building, 38x36x36 feet, tile work, mill work, carpentry, metal ceilings, bar fixtures, plumbing, electric work. Owner is taking bids.

Residence (alts.) and Garage, 1330 North Franklin street, Philadelphia. Architect, Charles F. Schaef, Otis Building, Philadelphia. Owner, Dr. J. B. Chaikin, 1338 North Franklin street, Philadelphia. Brick, 1 story, 18x20 feet, slag roof, cement floors, hot water heat, electric light, tile and marble work, fire doors. Architect is ready for bids.

Residence and Store, 1163 South Ninth street, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, Joseph Satonaro, 1149 South Ninth street, Philadelphia. Brick, 3 stories, 15x65 feet, slag roof, pine floors, hot water heating, electric lighting, tile and marble work, metal ceilings, flush bulks. Plans in progress. Owner will be ready for bids in a week.

Store and Residence (alts.), Southwest Corner Marshall and Fitzwater streets. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, name withheld. Brick and steel, 3 stories, 19x43 feet, slag roof, pine floors, metal lath, metal ceilings, flush bulks, tile and terrazzo work, heating, plate glass. Plans in progress. Architect will be ready for bids in one week.

Residence, Northwest Corner Marshall and Pemberton streets, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 3 stories, 19x35 feet, slag roof,pine floors, hot water heating, electric lighting. Plans in



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progress. Architect will take bids in one week.

Store and Office Building, Fifth and Rising Sun avenue, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, name withheld. Brick and steel, 3 stories, 80x90x40 feet, slag roof, pine floors, metal lath and ceilings, ornamental iron work, tile and marble work, steam heating, electric lighting. Plans completed. Architect is ready for bids.

Office Building and Shop, 3318-20-22 Lancaster avenue, Philadelphia. Architect, private plans. Owners, Philadelphia Steam Heating Co., care of J. H. Boswell, Juniper and Arch streets, Philadelphia. Brick and cut stone, 2 and 1 stories, 51x123 feet, reinforced concrete work, limestone, slag and tin roof, cement floors, metal lath and ceilings, ornamental iron work and stairs, Bond, rolled steel sash and skylights, demolition (heating, lighting and plumbing reserved). Owners taking bids due January 23rd. Graham & Wells, 3649 Filbert street; D. Henwood, 717 South Sixty-third street, Philadelphia; James Johnston, 1721 Ludlow street; E. C. Durell, 1713 North Twenty-fourth street; Hurley Brothers, Bulletin Building; Sutton & Stephenson, 1317 Washington avenue; William R. Dougherty, 1610 Sansom street; George P. Clayton, 1817 North Twentieth street; Smith-Hardican Co., 1606 Cherry street; John Schnabel, Inc., Denckla Building; Lam Building Co., 1001 Wood street; Wark Co., 231 South Broad street, and J. M. Yardley, 1716 Sansom street, are figuring.

Residence (alts. and add.) to Stores and Apartments, Thirty-fifth and Spring Garden streets, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, James E. Wilson, care of architect. General alterations and additions, slag roof, new partitions, plumbing, tile work, hollow metal skylights, fire doors (heating and electric work reserved). Architect taking bids due January 26th. Thomas C. Trafford, 1613 Sansom street; F. L. Hoover & Son, 1023 Cherry street; E. H. Keefer & Son, 1331 Rodman street; Smith-Hardican Co., 1606 Cherry street; Kober Const. Co., 34 South Seventeenth street; Clark Brothers, 1506 Washington avenue; Joseph E. Foster, 806 Walnut street; W. O. Springer, 2004 Naudain street, and Turnbull & Cornell, 20 South Eighteenth street, are figuring.

Residences (3 pairs), Washington lane and McCallum street. Architect, John Keyes, Otis Building, Philadelphia. Owner, Joseph Ross, Wissahickon avenue and Upsal street, Philadelphia. Brick, 2½ stories, 32½x40 feet, slate roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Architect taking bids due January 21st. Samuel Harting, 20 East Johnson street; Penn Building Co., 1504 West Venango street; Charles Johnson, 2032 East Chelten avenue; Henry P. Schneider, 3713 Old York road, and James Walter, 168 East Walnut lane, are figuring.

Supplies, Philadelphia. Owners, City of Philadelphia, care of A. L. Acker, Purchasing Agent, 312 City Hall, Philadelphia. Fire brick, cement, etc., conveyor chain and parts. Owners taking bids due January 23rd at noon.

Bath House, Passyunk avenue and Wharton street, Philadelphia. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owners, Public Bath Association of Philadelphia, 410 Gaskill street, Philadelphia. Brick, cut stone, steel and reinforced concrete, 2 stories, 60x56x36 feet, slag roof, reinforced concrete, composition and linoleum floors, metal lath, water and dampproofing, ornamental iron work and stairs, fire doors, rolled steel sash and skylights, slate, tile and marble work, gas lighting, demolition, $1,500 allowance for finished hardware. Architects taking bids due January 20th at 3 P. M. William R. Dougherty, 1610 Sansom street; F. E. Wallace, 1220 Chancellor street; Roydhouse-Arey Co., 112 North Broad street; R. C. Ballinger & Co., 925 Walnut street; J. S. Cornell & Son, Morris Building, and J. Sims Wilson Co., 1125 Brown street, are figuring.

Residences (5), Tyson street, East of Rising Sun avenue (1) 1003 Disston street, and (2) 1019 and 1035 Tyson street, $33,000. Architect, private plans. Owners, Broadmore Building Corporation, 6915 Rising Sun avenue, Philadelphia. Frame, 1 and 2 stories, 18x36 feet, 24x40 feet, and 24x28 feet, hot water heat, hot air heat and steam heat. Owners will build.

Store and Apartment, Northwest Corner Fifth and Parrish streets, $8,500. Architect, private plans. Owner, Mitchell J. Lichow, 836 North Fifth street, Philadelphia. Brick, 3 stories, 18x62 feet, hot water heating. Owner will build.

Residence, 836 Fanshawe street, Philadelphia, $3,500. Architect, private plans. Owner, Walter Frisch, 7114 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 22 feet and 11½ feet, slag roof, yellow pine floors, hot water heat, electric light. Owner will build.

Garages (add.), 2313-15-17 North Twenty-eighth street, Philadelphia, $2,500. Architect, private plans. Owner, William Goebig, 2233 North Twenty-eighth street, Philadelphia. Brick, 1 story, 36x75 feet, slag roof, cement floors, electric lighting. Owner will build.

Apartment, Northeast Corner Forty-first and Chestnut streets, Philadelphia, $2,000. Architect, private plans. Owner, Anthony Gallagher, 3700 Haverford avenue, Philadelphia. Brick, 1 story, 12x6 feet and 6x10½ feet, slag roof, hot water heating, electric lighting. Owner will build.

Supplies, Philadelphia. Owners, City of Philadelphia, care of A. Lincoln Acker, Purchasing Agent, 312 City Hall, Philadelphia. Block filler (asphalt) and Hardware. Owners taking bids due January 27th at noon.

Library, Nineteenth to Twentieth street, Parkway, Philadelphia, $3,000,000. Architects, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Works, and Librarian John Ashhurst, Thirteenth and Locust streets, Philadelphia. Stone, steel, concrete, 2 stories, 313x212 feet, cement floors, steam heating, electric lighting, tile, marble and terrazzo, hollow tile, metal lath, ornamental iron work. Plans completed. Owners are ready for bids.

Residences (16) Marshall and Grange Avenues, Philadelphia, $5,000 each. Architect, private plans. Owners, W. Fisher's Sons, 4900 North Eighth street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, oak and yellow pine floors, hot water heat, electric lighting, tile work, (1) 15x29 feet and 12x15 feet. Owners will build.

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Shop, Sixth and Rockland streets, Philadelphia, $2,250. Architect, private plans. Owner, Mrs. Sarah Sliver, Sixth and Rockland streets, Philadelphia. Brick, 1 story, 16x40 feet, slag roof, cement floors, electric lighting. Contract awarded to John F. Carhart, 5729 McMahon street, Germantown.

Building, Broad and Montgomery avenue, Philadelphia. Architect, Philip H. Johnson, Presser Building, Philadelphia. Owners, Temple University, Broad and Montgomery avenue, Philadelphia. Brick, cut stone, steel and concrete, 6 stories, 100x150 feet, slag roof, granolithic, composition and maple floors, metal lath, elevators, safety treads, metal window guards, waterproofing, ornamental iron work and stairs, Bond, steel tube doors, rolled steel sash and skylights, tile, marble and terrazzo, stone foundations, metal cabinets, steel lockers, cork linoleum, kitchen and cafeteria equipment (plumbing, heating, electric work separate bids). Contract awarded to F. W. Mark Cont. Co., Commercial Trust Building, Philadelphia.

Art Museum, Fairmount Park, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Philadelphia Museum of Arts, Commissioners of Fairmount Park, City Hall, Philadelphia. Structural steel, 2 stories, irregular size, 125,000 square feet. Contract awarded to the American Bridge Co., Widener Building, Philadelphia.

Wing, John B. Stetson School, B, between Allegheny avenue and Kip street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contracts awarded for general contract to Franklin M. Harris Co., Inc., 1520 Parrish street, $116,777; heating, Walters, Purks & Mellon, 4419 Ludlow street, $19,391; plumbing, S. Faith & Co., 2429 Pennsylvania avenue, $4,271; electric work, George Woodward, Jr., 1623 Sansom street, $3,945; cabinet work, John E. Sjostrom, Inc., 1715 North Tenth street, $3,468; ventilating, Joseph Donahue, 135 North Twenty-second street, $1,193.

Wing, John Marshall School, Sellers, Griscom, Penn and Gillingham streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Contracts awarded for general contract to McCloskey, Inc., 1620 Thompson street, $17,262; electric work, Walker & Kepler, 331 Chestnut street, $1,414.

Annex, William P. Tilden Junior High School, Seventieth and Buist avenue. Owners, Board of Education, care of J. D. Cassell, Nineteenth above Chestnut street. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, $12,802; heating, McClintick Brothers, 5216 Webster street, $776; electric work, George Woodward, Jr., 1623 Sansom street, $495.

Annex, C. W. Thomas Junior High, Ninth and Oregon avenue, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contract awarded to E. C. Durell, 1713 NNorth Twenty-fourth street, $12,987; electric work, George Woodward, Jr., 1723 Sansom street, $478; heating, Mechanical Equipment Co., 1201 Sansom street, $694.

Garage, 119 to 125 Wildey street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, Joseph Feldman, Lincoln Building, Philadelphia. Brick, 1 story, 60x120 feet, slag roof, cement floors, cold water painting, rolled steel sash, iron work, steam heating, electric lighting. Contract awarded to David Warshawfsky, 812 North Franklin street, who is taking subbids.

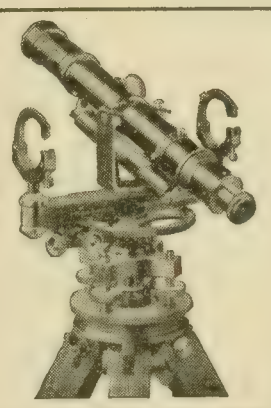
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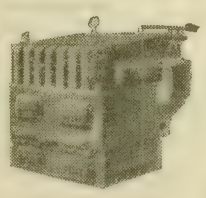
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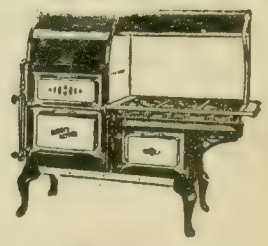
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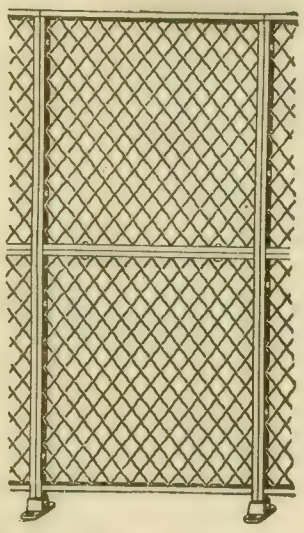
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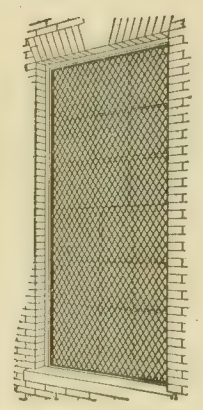
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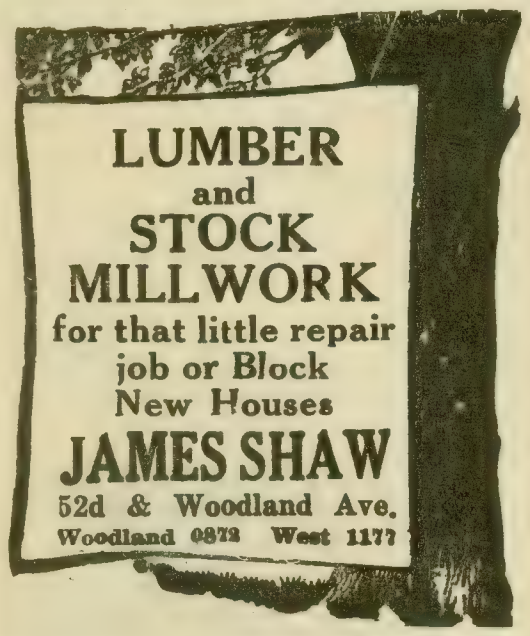
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Fourth street, Philadelphia, $75,000. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, Louis Blumberg, 513 North Fourth street, Philadelphia. Brick, concrete and limestone, 1 story, 56x183 feet, composition roof and floors, metal lath, roof ventilators, fire door, ornamental iron work, steam heat, electric light, tile and marble work. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

Demolition and Removal of Buildings for Bridge, Philadelphia. Owners, Delaware River Joint Commission, Widener Building, Philadelphia. Contract awarded to Charles D. Heavey, 513 North Sixty-first street, $7,999.99.

Fire Tower, Etc., Indiana avenue and A street, Philadelphia. Architect, Amos W. Barnes, 10 South Eighteenth street, Philadelphia. Owners, Hoyle, Harrison & Keye, on premises. Structural steel, 8 stories. Contract awarded to North Const. Co., East Stafford avenue, Melrose Park, Pa.

Synagogue (alts.), Southeast Corner Broad and Mt. Vernon streets, $1,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Rodeph Shalom Synagogue, Broad and Mt. Vernon streets, Philadelphia. Storm enclosures, carpentry, mill work, painting, glazing. Contract awarded to John Schnabel, Inc., Denckla Building, Philadelphia.

Apartments (12), 5226-28 Parkside avenue, Philadelphia, $18,000. Architect, private plans. Owner, W. S. Hoffman, 504 North Seventh street, Philadelphia. Brick, 3 stories, 16x51 feet and 60x30 feet, slag roof, hot water heat. Contract awarded to M. Miron, 504 North Seventh street, Philadelphia.

Store and Rooming House (alts. and add.), 3433 Walnut street, $4,000. Architect, private plans. Owner, Philip Bucci, 6224 Washington avenue, Philadelphia. Brick, 1 story, 6x16 feet, slag roof, heating reserved, tile, marble work, metal lath. Contract awarded to Henry P. Schneider, 3713 Old York road.

Residence and Store (add. and alts.), 3012 Frankford avenue, $3,600. Architect, private plans. Owner, Joseph Wolfe, on premises. Brick, 2-story add., 15x25 feet, general alterations. Contract awarded to F. Pezzillo & Son, 3347 Almond street, Philadelphia.

Church, East side Mascher street, North of Susuehanna avenue, $3,000. Architect, private plans. Owners, Morris Presbyterian Church, on premises. Demolition, tearing down upper floor. Contract awarded to B. Goldstein, 1538 South Sixth street, Philadelphia.

Garage, 3432 Duval street, Philadelphia, $2,000. Architect, private plans. Owner, Philip Bucci, 6224 Washington avenue, Philadelphia. Brick, 1 story, 16½x10 feet and 20x15½ feet, slag roof, cement floors, heating reserved, electric light. Contract awarded to Henry P. Schneider, 3713 Old York road.

Garage, Shop and Storage, 1102 Olive street, Philadelphia, $1,800. Architect, private plans. Owner, Anthony Duffy Estate, 241 North Sixty-second street, Philadelphia. Brick, 3 stories, 10½x27 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to G. Thomas Holloway, 5433 Spring street, Philadelphia.

Bakery (alts. and add.), 2602 East Somerset street, Philadelphia, $1,500. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, J. Tacconelli, on premises. Brick, 1 story, 20x40 feet, concrete roof, yellow pine floors, electric light. Contract awarded to Romole Rizze, 2604 East Somerset street, Philadelphia.

Church (add. and alts.), Southwest Corner Nice and Lycoming streets, $2,500. Architect, private plans. Owners, Nazarene Baptist Church, on premises. Brick, 1 story, 11x6 feet add., mill work, stair work, plumbing, general alterations. Contract awarded to Stewart Brothers Co., 2526 North Orkney street.

Chapel, Olney, Philadelphia. Architects, Hewitt & Ash, 1827 Arch street, Philadelphia. Owners, St. Alban's Episcopal Church, care of Rev. Archibald Campbell Knowles, 555 Pelham road, Philadelphia. Indiana limestone, interior chapel, 20x20 feet, stained glass, bronze work. Owner taking sub-bids. Contract for stone awarded to Brookhouse & Kerner, 219 South Quince street.

Store and Residence, 1920 South Twentieth street, Philadelphia, $4,600. Architect, private plans. Owner, John D. Lippincott, northwest corner Nineteenth and McKean streets, Philadelphia. Brick, 2 stories, 16x28

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feet and 12x32 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Silvio Tasso, 931 Ernest street, Philadelphia.

..**Residence (alts. and add.)**, Southeast corner American and Tabor Road, $3,500. Architect, private plans. Owner, Wm. Fetters, Rising Sun and Tabor Road, Philadelphia. Brick, 1 story, 14x3½ feet addition, tin roofing, yellow pine floors, hot water heating, electric lighting. Contract awarded to W. L. Bushnell, 2146 East Norris street.

Factory, southeast corner Ogden and Heatton streets, Philadelphia, $8,000. Architect, private plans. Owner, Wilson S. Boice, on premises. Brick, 2 stories, 49x56½ feet, slag roof, cement floors, steam heat, electric light. Contract awarded to T. Wilkinson, 3639 N. Ninth street, Philadelphia.

Bakery Building, Hunting Park and McMichael street, Philadelphia. Architect, private plans. Owners, Tasty Baking Co., 2335 Sedgley Avenue, Philadelphia. Reinforced concrete, 5 stories and basement, 100x100 feet, slag roof, concrete floors, elevators, waterproofing, ornamental iron work, rolled steel sash, steam heating, electric light. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Garage, Wayne and Chelten Avenues, Philadelphia. Architects, private plans. Owners, Velie Sales Co., Harvey street and Germantown Avenue, Philadelphia. Brick and steel, 1 story, 60x110 feet, slag roof, cement floors, hot water heat, electric lighting, metal lath, ornamental iron work. Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

PENNSYLVANIA Construction News

Club House (alts. and add.), Llanerch, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, Llanerch Country Club, Upper Darby P. O., Pa. Stone, 2 stories. Architects taking bids due January 24th. Ed. Fay & Son, 2 South Mole street; Charles McCaul Co., 1715 Sansom street, Philadelphia; Milton W. Young, Overbrook, Philadelphia, and H. D. MacGregor, Lansdowne, Pa., are figuring.

School, Warminster, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School District of Warminster, Pa. Stone, 2 stories, 91 feet 10 inches x 48 feet, Carey Feltex roof. Owners taking bids due January 25th. Bowden Const. Co., 1713 Sansom street, are figuring.

Residences (alts. and add.) to Stores and Offices, 200-02-08-10 Market street, Harrisburg, Pa. Architects, Laurie & Lappley, Second and Locust streets, Harrisburg. Owner, Philip Caplan, 206 Market street, Harrisburg, Pa. Brick, 1 story, slag roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath, tile, marble and terrazzo work, roof ventilators, rolled steel skylights, roof ventilators, bronze work. Sketches in progress.

Hotel (alts.), Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Mansion House, Carlisle, Pa., care of architect. Interior alterations. Too early for details.

Apartment and Store, Cumberland and Capitol streets, Harrisburg, Pa. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owner, H. Bruan, care of Gohl & Bruan, 310 Strawberry street, Harrisburg. Brick, 3 stories, 44x71 feet, slag roof, pine floors, steam heat, electric light. Owner taking sub-bids.

Factory and Filtering Plant (alts. and add.), Spring Grove, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Gladfelter Paper Co., on premises. Brick, concrete, steel, 1 story, 80x450 feet, slag roof, concrete floors, electric lighting, rolled steel sash and skylights, fire doors, roof ventilators, waterproofing, dampproofing. Owner subletting.

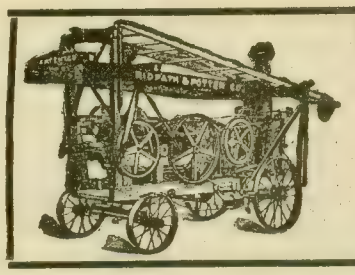
Hotel (alts.), to Bank and Apartment, Robisonia, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Mansion House and Robisonia Bank, care of R. Gerhart, premises. Mill work, partitions, concrete, tile and hardwood floors, general interior alterations, bank fixtures, metal window guards. Plans in progress.

Garage, Walnut street, Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owner, W. H. Luden, 216 North Eighth street, Reading, Pa. Brick, 1 story, 54x15 feet 11 inches, concrete floors. Plans in progress.

School (alts. and add.), East Norriton, near Penn Square, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, East Norriton School District, East Norriton, Pa. Brick. General alterations and additional. Preliminary plans in progress. Too early for details.

Ice Manufacturing Plant, Seventh and Schuylkill streets, Harrisburg, Pa. Architect, not yet selected. Owners, United Ice & Coal Co., Foster and Cowden streets, Harrisburg. Work contemplated. Too early for details.

Theatre and Office Building, Lansford, Pa. Architect, John T. Simpson, Essex Building,


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Newark, N. J. Owners, Panther Valley Amusement Co., Lansford, Pa. Brick, limestone and steel, 4 stories and basement, 150x50 feet, slag roof, cement and pine floors, metal lath, damp and waterproofing, ornamental iron work, Bond, fire and kalamein doors, hollow metal skylights, rolled steel sash, tile, marble and terrazzo work, steam heat, electric light, stone foundations. Owners are ready for revised bids.

School, Tuscarora, Schuylkill Township, Pa. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owners, Board of Education, Tuscarora, Pa. Stone and brick, 2 stories, 142x82 feet. Architects will be ready for new bids in about one week.

Garage, Morris avenue, Bryn Mawr, Pa. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owner, Francis Brooke, Bryn Mawr, Pa. Stone, 2 stories, 30x24 feet, green tile roof, pine floors (heating and lighting reserved). Architects taking bids due January 20th. Charles C. Pace, Merion, Pa.; Gray Brothers, Rosemont, Pa., and William D. & H. T. Smedley, Narberth, Pa., are figuring.

Bank, Oley, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, First National Bank of Oley, J. M. Bertolet, president, Oley, Pa. Architect taking bids due January 20th (note extension).

School (alts. and add.), Narberth, Pa. Architect, A. H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Main Montgomery School, Hopper Estate, Narberth, Pa. Brick, 2 stories, 63x43 feet, slag roof, roof ventilators, fire doors. Architects taking bids due January 20th. Frank H. Mahan, Ardmore, Pa.; Gray Brothers, Rosemont, Pa.; W. D. Smedley, Narberth, Pa.; William R. Dougherty, 1610 Sansom street; C. C. Edelman, 1627 Sansom street; Irwin & Leighton, 126 North Twelfth street; Ketcham & McQuade, 1029 Brown street, and H. H. Burrell, 206 South Quince street, are figuring.

Bungalow, Glenside, Pa. Architect, private plans. Owner, Mr. Hugh, Glenside, Pa. Stone, 1½ stories, 37x56 feet, slate roof, pine floors, hot water heat, electric lighting. W. John Stevens, Inc., Wyncote, Pa., taking sub-bids due as soon as possible.

Bank (alts.), Sinking Spring, Pa. Architect, H. Maurer, 226 Fifth street, Reading, Pa. Owners, Sinking Spring Bank, Mr. Weber, president, on premises. General interior alterations, steam heat, electric light, bank fixtures, ornamental iron work. Architect taking bids due January 25th. Beard Const. Co., 638 Penn street; Focht & Son, Baer Building; C. L. Schlegel, 2250 Perkiomen avenue; Sharp Const. Co., 22 North Fifth street; D. H. Hunter, 820 North Eleventh street, and Adam Spatz, all of Reading, Pa., are figuring.

Factory, Hazleton, Pa. Architect, Calvin Young, 226 North Fifth street, Reading, Pa. Owners, Liebovitz & Sons, Inc., care of architect. Brick, factory construction, 2 stories, 150x75 feet and 22x35 feet, Johns Manville roof, plank floors, steam heat, eletric light, rolled steel sash, fire doors, freight elevators. Architect taking bids due January 25th. Hughes-Foulkrod Co., Commonwealth Building; Beling-Bush Co., Drexel Building; Ayres Concrete Products Co., Heed Building; Drehman Paving & Const. Co., 2622 Parrish street, all of Philadelphia; Beard Const. Co., 658 Penn street, Reading, Pa.; Ochs Const. Co., Tilgham H. Moyer Co., Allentown, Pa.; R. T. & D. D. Stewart Cont. Co., Easton, Pa.; H. L. Campbell Const. Co., Hazleton, Pa.; Shepherd Const. Co., Wilkes-Barre, Pa.; Shamokin Lumber & Const. Co., Shamokin, Pa.; Central Const. Co., Harrisburg, Pa.; White Const. Co., 95 Madison avenue; J. W. Ferguson Co. and F. C. Garrett, 253 Broadway; United Fireproofing Co., 8 West Fortieth street; J. H. Taylor Cons. Co., 110 West Fortieth street; Levering & Garrigues, 552 West Twenty-third street, New York City, and Ransom & Anderson, Jersey City, figuring.

Residences (2), Wyndmoor, Pa. Architects, Savery & Scheetz, 1309 Locust street, Philadelphia. Owner, name withheld. Frame, 2½ stories, 18x40 feet, slate roof, pine floors, electric lighting. Architects have received bids.

School, Oaks, Upper Providence Township, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, School District of Upper Providence Township, care of George J. Hallman, Mont Clare, Pa. Brick, stone and steel, 1 story and basement, 85x72 feet, slag and slate roof, pine floors, hollow tile, tile work (heating, lighting, plumbing and artesian wells reserved). Lowest bids submitted by: Friel-McLeister Co., 2146 East Norris street, Philadelphia, $25,341; H. C. Shallcross, Gratersford, Pa., $28,163. Plumbing, A. L. Logan, Mont Clare, Pa., $1,879.65. Electric work, Crisman & Tullman, Norristown, Pa., $7,000. Steam heating, A. L. Logan, Mont Clare, Pa., $4,800. Steam blower heating, D. Frank Boyer, Norristown, Pa., $3,660. Mechanical warm air heating, Frank Windell, 1713 Sansom street, Philadelphia, $3,789.

Hotel, Pottsville, Pa. Architect, Clarence E. Kendricks, Second and Mahantanga sts., Pottsville, Pa. Owner, Cassimattas Bros., Plaza Hotel, Pottsville, Pa. Steel, brick, stone trimming, 7 stories, 43x85 feet, wood and tile floors. Preliminary drawings now being made.

Residence, Douglasville, Pa. Architect, J. Vincent Poley, 162 Second Ave., Royersford, Pa. Owner, J. Harry Schurr, Douglasville, Pa. Stone, 2 stories, 18x42 feet, stone foundation asbestos roof, yellow pine floors, pipeless heater, electric light, plumbing, metal weatherstrips, floor hardener, (heating, plumbing and lighting, reserved.) Plans in progress.

Bridge, Over Schuylkill River between Spring City and Royersford. Engineer, Warren F. Cressman, Montgomery County, and Harry Ellis, Chester County. Owners, Intercounty Commissioners, care of County Commissioners, Norristown, Pa. Reinforced concrete, 410 feet long, 45 feet wide. Lowest bidders: G. A. & F. M. Wagman, Dallastown, Pa., (York Co.) $84,500 Sceds & Durham, 6314 Wissahickon Ave, Philadelphia, $88,000.

Bank, Palmyra, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, Palmyra National Bank, Eugene Boman, on premises. Brick, stone, 3 stories, 36x68 feet, stone foundations, metal roof, marble floors, hot water heat, tile and terrazzo work, hollow tile, rolled steel sash and skylights, roof ventilators, water and dampproofing, ornamental iron work. Architect will take revised bids next week.

Bank, Ephrata, Pa. $100,000. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, Ephrata National Bank, Mr. Weidman, President, care of Harry Hebshman, Ephrata, Pa. Stone, 1 story. Sketches in progress.

Apartment House, North Queen and Lemon streets, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, C. R. Eby, care of Keystone Realty Co., Lancaster, Pa. Brick. Sketches in progress.

Store Building, (alts. and add.) N. King street, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, Mr. K. Johnson, 16 North King street, Lancastor, Pa. Brick, 2 stories, general interior alterations, tile work. Preliminary plans in progress.

Bank, Lititz, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, Lititz Spring National Bank, G. Grabell, President, Lititz, Pa. Granite, 1 story, 20x62 feet, tile floors, hot water heat, electric light, marble work, rolled steel skylights. Architect will take bids next week.

Factory, West East street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Dudley Watch Co., care of Architect. Brick, steel, 2 stories and basement, 40x120 feet, slag roof, pine floors, electric light, rolled steel sash, waterproofing. Architect will take bids next week.

School, Bitnerville, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, Lancaster Township School Board, K. Johnson, President, Lancaster, Pa. Brick, 2 stories, 40x93 feet, slag roof, yellow pine floors, hot air heat, electric light, roof ventilators. Architect will take bids next week.

Residence and Garage, Brookline, Oelaware County, Pa. Architect, Richard R. Neely, 2136 Pine street, Philadelphia. Owner, T. G. McGahan, 41 North Sixty-third street, Philadelphia. Frame and stucco, 2½ stories, 30x30 feet, shingle roof, oak floors, hot water heating, electric lighting, tile work. Architect taking bids due Jan. 30th. D. Ridgway Evans, Penfield, Pa., Penn Bldg. Co., 1504 W. Venango street, and J. H. Feeser, 5018 Locust street, Philadelphia, are figuring.

Residence, Lansdowne, Pa. Architect, Richard R. Neely, 2136 Pine street, Philadelphia. Owner, Wallace Bostick, care of Architect. Brick, frame and stucco, 2½ stories, 25x42 feet, shingle roof, pine floors, hot air heat, electric lighting, tile work. Architect taking bids due Jan. 30th. D. Ridgway Evans, Penfield, Pa.; Adolph Korn, Clifton Heights, Pa.; T. S. Fetter, 1829 Filbert street; G. Thos. Hollaway, 5433 Spring street; K. G. Hickey, 1114 South Fifty-second street, and Penn Building Co., 1504 W. Venango street, Philadelphia, are figuring.

Pennsylvania Contracts Awarded

Telephone Exchange (alts. and add.), Wilkinsburg, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. General interior alterations and additions. Contract awarded to Henry Schenk, Pittsburgh, Pa.

Residence, Lancaster, Pa. Architect, H. R. Copeland, Imperial Building, Lancaster, Pa. Owner, M. C. Heagy, Y. M. C. A. building, Lancaster, Pa. Cinder block, stucco, 2 stories, 24x29 feet, slate roof, pine and hardwood floors, hot water heat, electric light, tile work. Contract awarded to D. S. Warfel, Woolworth Building, Lancaster, Pa.

Store Front, King street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, E. S. Kress, on premises. New front, leaded glass, copper work, general alterations. Contract awarded to H. L. Wiant, 544 Mill street, Lancaster, Pa.

Garage, Valley Road, Merion, Pa. Architect, Richard R. Neely, 2136 Pine street, Philadelphia. Owner, Wm. E. Hexamer, 932 Chestnut street, Philadelphia. Frame, 2 stories, 21x23 feet, shingle roof, cement and pine floors, electric lighting, (plumbing and heating, res.) Contract awarded to D. Ridgway Evans, Penfield, Pa.

New Jersey Construction News

Residence, Wenonah, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Oscar Ogden, Princeton avenue, Princeton, N. J. Frame, 2½ stories, 38x60 feet, shingle roof, hardwood floors, hot water heat, electric lighting. Architects taking bids due January 20th. Neilson & Carlson, Wenonah, N. J., and John Rusk, Pitman, N. J., are figuring.

Residences (3) (rear), Mississippi avenue, Atlantic City, N. J. Architect, A. F. Amodio, Segel Building, Atlantic City, N. J. Owner, F. Beleo, Mississippi avenue, Atlantic City, N. J. Brick, 2 stories, 25x75 feet, slag roof, yellow pine floors. Architect taking bids.

School for the Deaf, Trenton, N. J. Architects, Arnold H. Moses, Camden, N. J., and Guilbert & Betelle, Trenton, N. J. Owners, State of New Jersey, Division of Architecture and Construction, Capitol Building, Trenton, N. J. Brick, 2½ and 3 stories, slate roof, fireproof floors, steam heating, hollow tile, metal lath, electric lighting, tile and terrazzo work. Will consist of school building and (4) cottages. Plans in progress. Will be ready for bids in a few weeks.

Boiler House, Auditorium, Gymnasium and Cafeteria, First and Second avenues and Loomis street, Elizabeth, N. J. Architect, C. Godfrey Poggi, 275 Morris avenue, Elizabeth, N. J. Owners, Board of Education of the City of Elizabeth, Committee on Sites and New Buildings, John P. Clarke, William J. Kenealy, Herman Hersh and Adolph Machlet, Elizabeth, N. J. Limestone, brick, steel and reinforced concrete, 5 stories, 116x46 feet and 242x94 feet, slag roof, composition, concrete, asphalt and quarry tile floors, hollow tile, metal lath, dumb waiters, safety treads, roof ventilators, metal ceilings, waterproofing, architectural tetrra cotta, ornamental iron work and stairs, floor hardener, Bond, fire and kalamein doors, copper skylights, kalamein sash, slate blackboards (heating, ventilating, plumbing and electric work separate bids). Owners taking bids due January 26th at 8 P. M. Deposit of $25.00 required. Refund, $25.00.

Apartment House, South Illinois Avenue, Atlantic City, N. J., $80,000. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, B. Crailsheimer, care of Architect. Brick, 3 stories, 50x135 feet 10 inches. Architect taking bids due January 21st. Lam Building Co., 1002 Wood street, Philadelphia, is figuring.

Lumber Shed and Toilet Rooms, Camden, N. J. Architects, Ballinger Co., 12th and Chestnut streets, Philadelphia. Owners, J. B. Van Sciver Co., Camden, N. J. Architects taking bids due Jan. 20th at noon. J. S. Rogers Co., Drexel Building, Philadelphia; Henry Brown, 530 Bailey street; Geo. Bachmann, 19 North 30th street; Eugene Hensgen, 1140 Mechanic street; Jas. W. Draper, 436 Haddon avenue, and Lewis T. West, 828 Broadway, Camden, N. J., are figuring.

New Jersey Contracts Awarded

Residence and Garage, Plainfield, N. J. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owners, Mrs. William A. Warnock, care of architects. Frame, 2½ and 1½ stories, 60x33 feet, garage, 35x22 feet, shingle roof, oak, pine and cement floors, vapor heat, electric lighting, tile work, ornamental iron work. Contract awarded to J. H. Wyman & Son, Plainfield, N. J.

Ice Mfg. Plant Extension, Arctic and Michigan avenues, Atlantic City, N. J. Architect, C. Leslie Weir, 41 East Forty-second street, New York City. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick, limestone and steel, 1 story, 49x28 feet and 44x88 feet, Barrett roof, cement and pine floors, metal window guards, water and dampproofing, terra cotta, iron work and stairs, Bond, rolled steel sash, plumbing and demolition. Contract awarded to M. B. Markland, Atlantic City, N. J.

School, (Fire restoration), Walnut street, Woodbury, N. J. Architects, Ballinger Co., 12th and Chestnut streets, Philadelphia. Owner, Board of Education, care of W. B. Wooley, Woodbury, N. J. Brickwork, carpentry, millwork, demolition, metal lath, plastering, painting, glazing, iron and steel work. Contract awarded to John T. Allen Woodbury, N. J., $6,480.

Proposals

TREASURY DEPARTMENT, Superising Architect's Office, Washington, D. C., January 10, 1922. Separate Sealed Proposals will be opened in this office at 3 P. M., January 26, 1922, for the installation of an ice-making and refrigerating plant in the U. S. Treasury Building, Washington, D. C. Drawings and specifications may be obtained at this office in the dsceretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

WHY EVERY MERCHANT SHOULD BOOM CONSTRUCTION OF NEW HOMES

BY WHARTON CLAY

Commissioner, Associated Metal Lath Mfrs.

The average merchant is apt to think that an increase in building construction will bring profit only to the building interests, but such is not a fact. It is up to those in the building business to show the buisness man why he should get into the Own-Your-Home Movement; why he should subscribe for local Own-Your-Home bonds, should buy mortgages or mortgage bonds for local housing construction, and should vote for local tax exemption or limitation of taxes on new homes, and other alleviating measures.

When rents went up, where did the tenant get the money to pay the landlord? As rents climb ever higher he must continue to pay his increased rent out of his income. This is where the insurance man, furniture man, clothing man, and all other merchants have lost out, and explains to a large degree the famous "Buyers' Strike." Many people use that as an excuse, when, as a matter of fact, they were obliged to stop buying to make both ends meet. The only exceptions are the families which have doubled up, and, of course, these families have no use for additional furnishings or household equipment and many other lines of merchandise.

Of the average man's income in 1913, twenty per cent. of it went for the rent of an apartment with steam heat, or for a flat or house and coal for heating. Thirty per cent. went for food and lunches. Clothing for the family used up seventeen per cent. There was money for laundry and cleaning, life insurance, tobacco, candy, movie shows, vacations, etc., and still six per cent. left for savings and investments.

Of the average income in 1921, rent is forty per cent. Now, when the percentage for the remaining items is compared with that credited to them in 1913, we see that the increased rent was paid at the expense of almost every other business, trade or profession. The money rightfully belonging to them was diverted to bulge the pockets of the landlord.

Not only has much local business been bad, largely on account of this condition, but the families of thousands of men normally engaged in the building business, which represents more than a quarter of the total wealth of the country, and supports directly or indirectly eleven million of the people, have diminished purchasing power since the breadwinner has been idle or working part time only.

Those of the building business owe it to themselves and to the general welfare to get this matter thoroughly understood by the merchants of our cities. They must be the ones to start it, and the merchants and other influential business men will surely co-operate if they realize how far-reaching into their own welfare is the healthy normal growth of the building industry.

The furniture industry, under the guidance of Robert Jordan, is blazing the way with a million-dollar campaign to urge home-building. Other industries, such as electric-fixtures; public-service corporations, floor covering, and many others similarly affected, will undertake national campaigns as soon as they are convinced of the opportunity.

So, now we say, let everybody get behind the Own-Your-Home movement. The construction of more buildings means more business, more money in the pocket, and is of direct and vital interest to every merchant in town. Because of increased purchasing power of building mechanics and artisans, because of purchases for building materials, decorations, house and garden equipment, etc., and most of all, because the dam of high rents is thus forced to break, we bring strength and nourishment to the parched and wilted fields of general business.

The Chamber of Commerce, real-estate men—every merchant in the community—must see to it that the force of public opinion is brought to bear to induce the local bankers and loan men to facilitate construction by loaning mortgage money

at the lowest interest rates and lowest commission possible, and for as large a part of the total cost of the new homes as is consistent with the best interests of the community.

Building and loan associations should be organized and encouraged, and the working of this generally little-known form of financial aid to the home builder or buyer be widely advertised.

Building activity is axiomatic with a live community; it means business and prosperity for nearly every merchant in town, and home owning is the surest guarantee for a continued happy and prosperous commonwealth.

AN ORDINANCE FOR CONSTRUCTION OF CHIMNEYS

SUITABLE FOR USE IN CITIES AND TOWNS OF ANY SIZE OR AS A STATE LAW

Recommended by the National Board of Fire Underwriters, Committee on Construction of Buildings

This Ordinance does not apply to chimneys for high pressure boilers, furances used in manufacture, or for other heating appliances where high temperatures are maintained; but shall apply to all other chimneys which form a part of a building construction.

Chimney Construction

1. The walls of all chimneys to which this Ordinance applies, whether the fuel be wood, coal, gas or oil, shall be built of brick, concrete, stone, or hollow tile, of such thickness and construction as is hereafter specified, but this shall not preclude the use of a metal smoke-stack when located inside of a vent shaft having walls not less than 8 inches thick, and having an air space between the walls and stack on all sides.

2. Brick chimneys shall be built of solid brick, or may be built of perforated radial brick manufactured for the purpose and adapted to withstand high temperatures, but no other hollow brick shall be used.

3. The walls of brick chimneys shall not be less than 3¾ inches thick (width of a standard size brick), and shall be lined with fire clay flue lining.

4. Flue lining may be omitted in brick chimneys for private dwellings provided the walls of the chimneys are not less than 8 inches thick, and that the inner course shall be a refractory clay brick having a softening point of at least 1922 degrees Fahrenheit (Seger Cone 05).

5. Perforated radial brick chimneys may be unlined, provided the brick shall have a softening point of not less than 1994 degrees Fahrenheit (Seger Cone 03), and shall be not less than 7½ inches in radial thickness, except that when such chimney is located inside a vent shaft having walls not less than 8 inches thick, the thickness of the chimney wall may be determined by engineering design. The brick shall be shaped to the circular and radial lines of the various sections of the shaft so as to form even joints.

6. All brick work shall be laid in spread mortar, with all joints push-filled. Exposed joints both inside and outside shall be struck smooth. No plaster lining permitted.

7. Concrete chimneys cast in place shall be suitably reinforced vertically and horizontally. The walls shall be not less than 3¾ inches thick and shall be lined with fire clay flue lining.

Flue lining may be omitted in reinforced concrete chimneys for private dwellings, provided the walls of the chimneys be not less than 6 inches thick, and provided further that quartz gravel shall not be used as the coarse aggregate.

8. Concrete blocks used in chimney construction shall have walls not less than 3¾ inches thick, and blocks enclosing more than one flue shall have suitable reinforcement completely encircling the block chimneys shall have fire cay flue lining.

9. Stone chimneys shall be at least 4 inches thicker than required for corresponding brick chimneys, and shall have fire clay flue lining. Rubble stone chimney walls shall not be less than 12 inches thick.

10. Hollow building tile shall not be used for the walls of isolated or independent chimneys, but may be used for chimneys built in connection with exterior hollow tile walls of buildings not exceeding three stories in height, in which case the chimney walls shall be not less than 8 inches thick. The outer 8 inches of a building wall may serve as the outside wall of the chimney, but the remaining chimney walls shall be constructed of two layers of 4-inch tile set with broken joints; or they may be built of 4 inches of solid brickwork. In either case the walls of the chimney shall be securely bonded into the wall of the building. No chimney shall be corbeled from a hollow tile wall. All chimneys built of hollow building tile shall have fire clay flue lining.

11. Chimneys shall be built at least 3 feet above flat roofs, and 2 feet above the ridges of peak roofs, and shall be properly capped with stone, terra cotta, concrete, cast iron, or other approved material; but no such cap or coping shall decrease the required flue area.

12. Fire clay flue linings shall be manufactured from suitable refractory clay, either natural or compounded, which has a softening point not lower than 1994 degrees Fahrenheit (Seger Colon 03), and shall be adapted to withstand high temperatures and flue gases. They shall be of standard commercial thickness, but not less than ¾ inch. The flue sections shall be set in mortar of quality hereafter specified and shall have the joints struck smooth on the inside. The masonry shall be built around each section of lining as it is placed, and all spaces between masonry and linings shall be completely filled with mortar. No broken flue lining shall be used. Flue linings shall start at least 4 inches below the bottom of smokepipe intakes of flues, or from the throat of fireplaces, and shall be continuous the entire heights of the flues and project at least 4 inches above chimney top to allow for a 2 inch wash and a 2 inch projection of lining. The wash or splay shall be formed of a rich cement mortar. To improve the draft the wash surface should be concave wherever practical. Instead of the wash, a special chimney cap or coping may be used. Wherever flue linings are specified fire brick may be submitted if desired.

13. Chimneys shall not rest upon or be carried by wooden floors, beams or brackets, nor be hung from wooden rafters. Iron brackets or stirrups attached to wooden construction shall not be used to support chimneys. In frame buildings shall always be built from the ground up, or rest on basement walls.

14. Chimneys shall be built upon concrete or masonry foundations properly proportioned to carry the weight imposed without danger of settlement or cracking. The foundation for an exterior chimney shall start below the frost line.

15. The walls of brick buildings may form part of a chimney, but the walls of the chimney shall be securely bonded into the walls of the building, and the flue shall be lined the same as an independent chimney. Flues in party walls shall not extend beyond the center of the walls, and their location shall be permanently indicated on the exposed side of the wall.

16. No wall less than 12 inches thick shall be used to support a corbeled chimney, such corbeling shall not project more than 6 inches from the face of the wall, and in all such cases the corbeling shall consist of at least five courses of brick.

17. Flues shall be built as nearly vertical as possible, but in no case shall they have an angle greater than 45 degrees from the vertical. Where flues change

direction, the abutting linings at the angle joints shall be chipped to fit closely, and at no point shall the cross section area be reduced. There shall be but one connection to a flue.

18. Not more than two flues shall be permitted in the same flue space, and the joints of any two adjoining sets of flue linings shall be offset at least 7 inches. When there are more than two flues in a chimney, at least each third flue shall be separated from the others by a smoke-tight withe or division wall of brick or concrete at least 3¾ inches thick and bonded into the sidewalls. Each flue intended for a heating furnace or boiler connection, or for a fireplace, shall be separated from other flues by such a withe. In hollow tile chimneys the withe may be of tile.

19. When any single flue area within chimney walls exceeds 200 square inches, the walls shall be built not less than 8 inches thick and shall have fire clay flue lining as previously specified, but when flues become so large as to render it impractical to secure fire clay flue lining, they shall be lined with fire brick for a distance of at least 25 feet from the point of intake. Fire brick shall be laid in clay mortar.

20. Connections between chimneys and roof shall be made with sheet metal counter or cap flashing (copper recommended), arranged to overlap roof flashing and allow for movement that may occur between chimneys and roofs.

21. No increase in the wall thickness of chimneys, nor any projecting masonry, shall be permitted within a distance of 12 inches above or below the rafters or roof joists.

22. Irrespective of whether the fuel used be coal, coke, wood, or oil, the minimum area inside of chimney flue linings for various heating devices shall be as follows: For warm air furnaces, or low pressure steam or hot water heating boilers, not less than 75 square inches; for fireplaces, not less than one-tenth the area of the fireplace opening, but never less than 75 inches; for stoves, ranges, and other forms of room heaters, 49 square inches for rectangular flues, or an inside diameter of 7 inches for round flues. In no case shall the short cross section dimension of a rectangular flue be less than two-thirds the greater dimension.

When gas is the fuel used in a heating furnace, boiler, or automatic hot water the flues shall be of the same size and construction as required for stoves and ranges using other fuel. Vent flues where required for other domestic gas burning appliances may be of smaller size, but not less than 10 square inches. Such flues shall be made of fire clay or its equivalent not less than 1 inch thick with joints properly designed to effect a permanent seal, and the surrounding masonry walls may be omitted. Metal vent flues are permitted.

23. Smokepipe intakes to flues shall always enter the chimney through the side and shall consist of fire clay or metal thimbles securely set in the chimney wall with mortar, or the intake may be cast in concrete. Such openings shall be at least 18 inches below wooden lath and plaster or other combustible ceilings, or open joists. Neither the intake pipe nor thimble shall project into the flue. No woodwork shall be placed within 6 inches of the thimble. The thimble shall be surrounded by metal lath and plaster for a space of at least 6 inches, or an open space of that width shall be provided on all sides.

24. All mortar used in chimney construction, except as specified for fire brick in paragraph 19, shall be cement mortar proportioned as follows: Two bags of Portland cement, not less than 188 pounds, and one bag of dry hydrated lime 50 pounds, thoroughly mixed dry. To this mixture shall be added three times its volume of clean, sharp sand with sufficient water to produce proper consistency. When dry hydrated lime is not available, 1 cubic foot of completely slaked lime putty may be substituted for 50 pounds of dry hydrate. In case of such substitution, the mixing of lime and cement shall be very thorough. Dry hydrate should always be used in preference to lime putty.

25. After a chimney has been completed, all flues shall be thoroughly cleaned and left smooth on the inside.

26. All flues to which heating furnaces or boilers are to be connected shall be subjected to a smoke test before acceptance, but the test shall not be made until the mortar has thoroughly hardened. The method of test is to build a smudge fire at bottom of the flue and while the smoke is flowing freely from the flue, close it tighty at the top. Escape of smoke into other flues or through the chimney walls indicates openings that shall be made tight before the chimney is accepted. The test shall be made by the contractor in the presence of the Building Inspector or other official having jurisdiction, and of the owner of his representative.

Woodwork Around Chimneys

1. No wooden beams, joists, or rafters shall be placed within 2 inches of the outside face of chimneys, whether the same be for smoke, air or any other purpose. No woodwork shall be placed within 4 inches of the back wall of any fireplace.

2. All spaces between chimneys and wooden joists or beams shall be filled with loose cinders, loose mortar refuse, gypsum block, or other porous incombustible material to form a firestop.

The incombustible material shall be supported by strips of sheet metal or metal lath set into the brickwork and nailed to the wooden beams, forming a buckled flexible joint between, or by similar strips of metal nailed to the woodwork with the inner edge close to the chimney.

3. No wooden studding, furring, lathing, or plugging shall be placed against any chimney, or in the joints thereof. Wooden construction shall either be set away from the chimneys, or the plastering shall be directly on the masonry or on metal lathing or on incombustible furring material. Wood furring strips placed around chimneys to support base or other trim shall be insulated from the masonry by asbestos paper, at least ⅛-inch thick, and metal plugs or approved incombustible nail holding devices attached to the wall surface shall be used for nailing.

4. The walls of fireplaces shall never be less than 8 inches thick, and if built of stone the minimum thickness shall be 12 inches.

5. All fireplaces and chimney breasts shall have trimmer arches or other approved fire-resistive construction supporting hearths. The arches and hearths shall be at least 20 inches wide measured from the face of the chimney breast. The arches shall be of brick, stone or hollow tile, not less than 4 inches thick. A flat stone or a reinforced concrete slab may be used to carry the hearth instead of an arch if it be properly supported and a suitable fill be provided between it and the hearth. The length of trimmer arches and hearths shall be not less than 24 inches longer than the fireplace opening. Hearths shall be of brick, stone, tile, or concrete as may be specified. Wood centering under a trimmer arch shall be removed before plastering the ceilings beneath.

6. No coal burning heater shall be place in a fireplace which does not conform to the foregoing requirements and have an incombustible mantel.

7. No wooden mantel or other woodwork shall be placed within 8 inches of the side or within 12 inches of the top of any open fireplace. No combustible summer piece or fire board shall be used.

8. Any person or persons, whether owner, builder or mechanic, who shall build a chimney or flue in violation of any requirement of this Ordinance shall be deemed guilty of a misdeameanor and shall be fined not less than $10 nor more than $..... for each offense; and any chimney or flue which is built in violation of any requirement of this Ordinance shall be immediately demolished or rebuilt. It

shall be the duty of the Building Inspector or other duly authorized official to enforce this Ordinance.

9. All ordinances or parts of ordinances in conflict with this Ordinance are hereby repealed.

SCAFFOLDS CODE

A complete revision of the Industrial Board "Scaffold" Safety Standards has been made in an endeavor to make it complete and up to date.

A meeting of a sub-committee of the original committee has been called for Tuesday, January 24, 1922, for the purpose of going over this tentative draft.

Following this meeting the revised code will be submitted to the larger Committee and to the public for general constructive criticism.

It is hoped to have this revised and in effect by the time the Spring building program starts.

The housing shortage in this country will not be overcome within the next five years even with the best of good fortune. This statement was made by John Ihlder, manager of the Civic Development Department of the Chamber of Commerce of the United States, before the recent housing conference of the American Society of Civil Engineers held in New York.

Mr. Ilhder said that even the well-to-do would not be as adequately provided with good housing in 1927 as they were in 1914.

"As for the wage-earner, let alone the poor, their problem will be with us a good deal longer," he said. "Consequently it is part of common sense to base our proposals on the proposition that the campaign will be long continued and that whatever is to produce results must be economically sound." Mr. Ihlder pronounced as dangerous some of the so-called "emergency" housing legislation. He pointed out that during the last two years there has been legislation not based upon any deep study, and designed merely to check, temporarily, certain abuses from which a vocal part of the community is suffering. Legislation designed, not to cure, but simply to reduce irritation, he said, is likely to have effects quite unlooked for.

Mr. Ihlder explained that during the war he was an advocate of government housing for war workers.

"That was a time of real emergency and it had a definite terminal point, the end of the war," he said. "Today the situation is fundamentally different. What we do now has no definite terminal point. Any date we may set is easily changed. What we do now sets precedents, establishes a habit of mind which will carry on. So it is important that our precedents, our habits of mind, have in them the possibility of continued growth and development. Adequate and good housing must pay a fair return on the investment. Only so can we be assured of enough good, new housing to meet our growing needs and our rising standards."

Speaking of building costs, Mr. Ihlder said that "so far as experience goes, such short cuts to the millennium as government building and management do not promise to reduce real costs. Government operation, not only in this country but in others whose distance gives a haze of enchantment, has, as a rule, proved clumsy, inefficient, and expensive. Certain functions must necessarily be performed by government, but the burden of proof is always on those who would transfer new functions to the government. So far, proof is lacking that governmental construction or management of housing would produce better or as good results in America as would private. But at the same time those of us who hold to this belief must recognize that dissatisfaction with present housing conditions is causing a growing sentiment for direct participation by the government. Our only effective answer is to produce better results through private operation.

"In brief then, the kind of housing legislation which, because of experience, we can count upon to aid, is regulatory, the kind that protects the men who would contribute to the public wealth from the exploiter who would prey upon the public wealth. This kind of legislation, building codes, housing codes, city planning and zoning ordinances we shoud perfect and promote, confident that if well devised, it will encourage building because it will make investments more secure."

CINCINNATI CARPENTERS VOTE TO ACCEPT WAGE CUT

Canvass of the vote of the various locals completed January 11 by the Cincinnati carpenters' district council showed that the men had voted 980 to 652 in favor of accepting ninety-five cents an hour minimum rate of pay, proposed by the Master Builders' Association. Carpenters have been receiving one dollar an hour.

HEARINGS ON FREIGHT CASES ON BUILDING MATERIAL SET

Hearings on the freight rate cases involving shipment of sand and gravel, brick, lime, cement, gypsum and asphalt have been set for Jan. 24 and 25 by the Interstate Commerce Commission. On Jan. 26 and 27 hearings on the lumber and forest products cases will be heard.

BUILDING CODE.

The first section of the tentative draft of the Building Code was forwarded to the members of the Building Code Master Committee appointed by Commissioner C. B. Connelley.

This section comprises all that part of the tentative code covering assembly buildings. The Committee was asked to study this section of the code. When the entire tentative draft has been completed and forwarded to the Committee, a meeting will be called for the purpose of taking the entire code under advisement. The members of the Committee are: Mr. Charles T. Ingham, Pittsburgh; Mr. George H. Danforth, Pittsburgh; E. F. Welsh, Secretary Penn State Building Trades, Pittsburgh; Mr. Edgar A. Weimer, Lebanon, Pa.; John Molitor, Chief Bureau of Housing, Department of Health, Harrisburg; Bernard F. O'-Rourke, Building Inspector, Wilkes-Barre; Edwin Clark, Chief Bureau of Building Inspection, Philadelphia; Mr. D. Knickerbacker Boyd, Philadelphia; Prof. C. D. Dunnells, Carnegie Institute of Technology, Pittsburgh; and Robert J. Cochran, Chief, Bureau of Building, Pittsburgh.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

The "Builders' Guide" is in its thirty-seventh year of continuous publication.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
1927 Market St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Photostat Service Corporation,
North American Bldg., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' HARDWARE.
Soeffing, Adolph, & Co. .....833 Arch St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts.. Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Mineraloid Flooring Co. ....524 Drexel Bldg., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products,
36 N. Delaware Ave., Phila.
Barrett Co., The.....New York and Philadelphia
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co.....Bulletin Bldg., Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ELECTRICAL CONSTRUCTION.
Baird-Osterhout Const. Co..1620 Chancellor St., Phila.
Woodward, George, Jr. .....1723 Sansom St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIRE BRICK.
Fitzgerald, J. J., & Co...2nd and Butler Sts., Phila.

FIREPROOFING.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR PLATES.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.
Fitzgerald, J. J., & Co...2nd and Butler Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GASTEAM.
Carkeek, H. T. .....824 Walnut St., Phila.

GAS WATER HEATERS.
Hoffman Water Heater Co. ....824 Wanut St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HARDWARE (Builders').
Soeffing, Adolph, Co. .....833 Arch St., Phila.

HARDWOOD FLOORS.
Geiger, A. F..S. E. Cor. Felton and Media Sts., Phila.
Herbert, W. A., & Son....5430 Haverford Ave., Phila.

HAULING CONTRACTORS.
Kane & Co. .....1226 N. 9th St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Austin, Gorham, McIlvaine & Co., Inc.,
1816 Ludlow St., Phila.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
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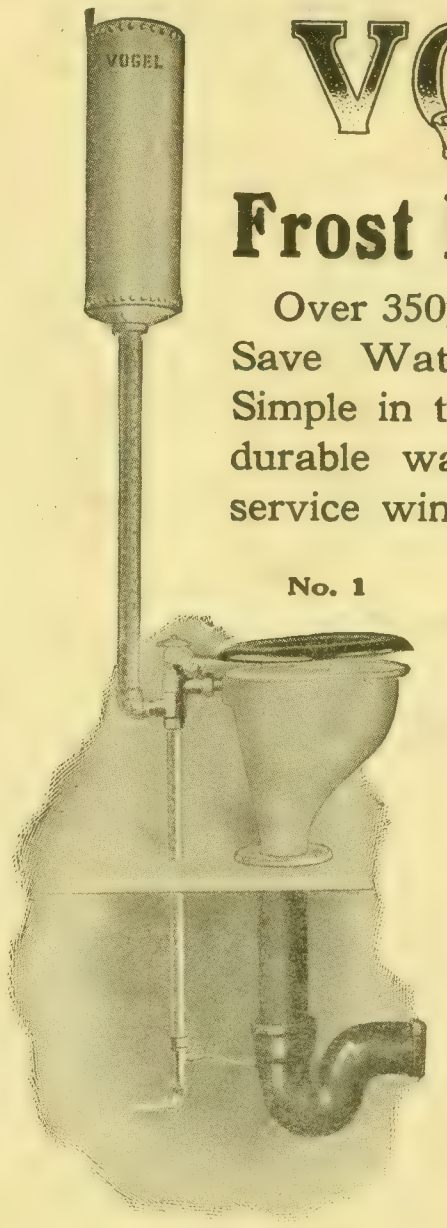
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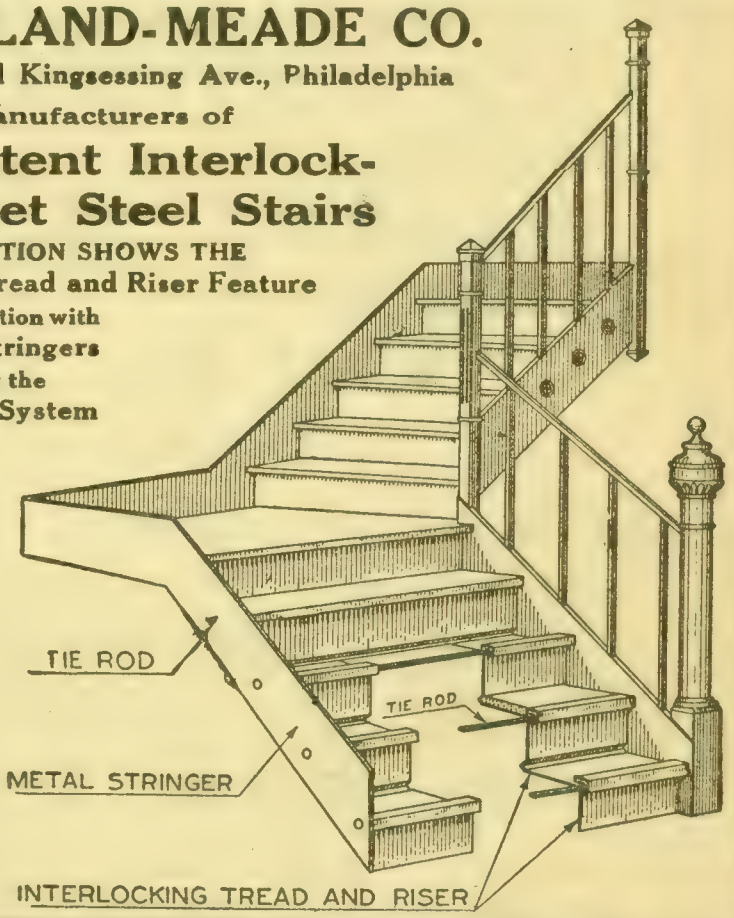
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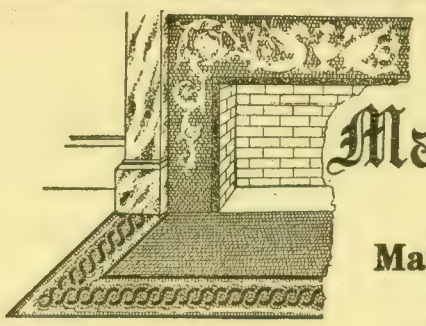


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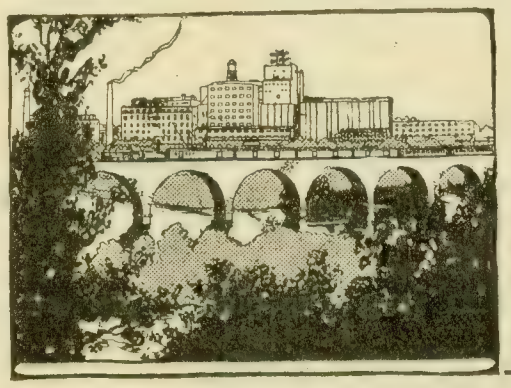
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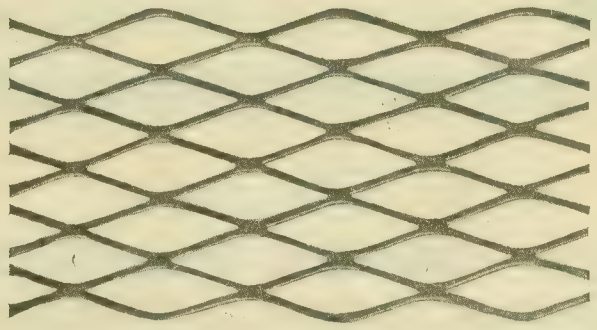
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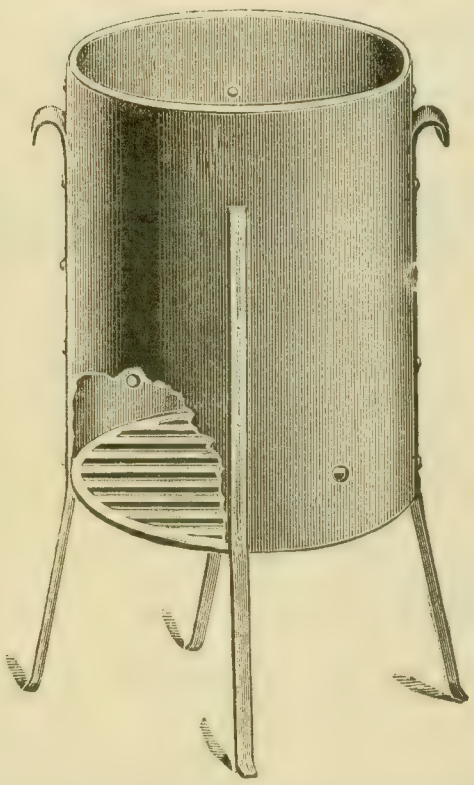
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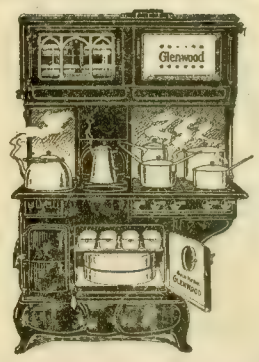
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 4

PHILADELPHIA
January 25, 1922

BUILDERS' GUIDE

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As The Editor Sees It

OF the many problems confronting the construction industry today, none is more important than the finding of a way to eliminate the seasonal character of the building game. This problem is receiving earnest and thoughtful consideration from all concerned, and the GUIDE has followed a policy of publishing everything pertinent to this question, which has come to its notice. All branches of the construction industry are devising ways and means to carry on work despite the heretofore supposedly unsurmountable difficulties imposed by cold weather. We have recently put before our readers articles on bricklaying, cement setting and the like in cold weather. A plan proposed by the Flintkote Co., and adopted and followed by the "Prepared Roofing Makers" might easily be used by other branches of the construction industry.

Though comparatively new in business, manufacturers of asphalt roofing—shingle and rolls—are thoroughly familiar with the old problem of keeping their mills busy during the months of December, January and February. They have been among the many victims of seasonal peaks and depressions. But they have suffered more perhaps than the average manufacturer because theirs has been a fast growing industry, and after the winter let-down in production, it has been a terrific strain to meet the heavy spring demand.

How to distribute demand more evenly throughout the year seemed to be a more pressing problem last November than at any time in the last few years, for all signs pointed to unusual building activity beginning with the spring of 1922. What could be done to stimulate winter buying of roofing material?

The leading manufacturer in the industry—leader because of his ownership of patents covering a widely used asphalt strip shingle which some forty factories are making under license agreements—undertook to find the answer. His canvass of the industry showed that the usual slump in orders was impending, and that no one was ready to suggest a stimulant.

His proposal was simple, and in line with popular demand. It was to cut prices to the bone—cut them actually under cost of production—and give the greatest possible publicity to the action. He proposed to force dealers to stock up during the Winter by convincing them that it would be profitable to buy with borrowed funds, if necessary, while quotations were at bed-rock.

To licensees, whose factory price of the strip shingle is controlled, this manufacturer proposed a cut from $4.85 per "square" (enough material to cover 100 square feet) to $4.25 on the strip shingle, and proportionate cuts in other prepared roofing products. The new prices would be 40 per cent. lower than high quotations for 1920, and would be actually below pre-war, or 1913 figures if pre-war freight rates prevailed.

It was proposed to link with the announcement of price reductions the logical and popular argument that by maintaining a flow of orders throughout the usual slack months, these results would follow:

First, factory organizations would be kept intact and tuned up for spring production.

Second, the manufacturers would assist materially in keeping down the volume of unemployment during the season when the jobless worker suffers most.

Third, tonnage would be kept moving on the railroads during an ordinary slack season.

Fourth, prices of other building materials would probably be lowered, and the expected stimulation of building would sooner take effect to relieve the housing situation.

It was further proposed to readjust prices following the first radical cut in accordance with a schedule somewhat as follows:

At the rock-bottom quotations, sufficient orders would be taken to keep factories running at full time during December—and at an actual loss. After the first advance in prices, additional orders would be accepted for January outturn—and on these manufacturers would break even. With dealers encouraged to buy in anticipation of spring demand and in-

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BLUE PRINTS

evitably higher spring prices, quotations would be moved up so that the February output (still at capacity) would show sufficient profit to more than offset the losses of Demember.

At any rate, this program was laid out by the executive heads of the manufacturing company which took the initiative; and it was generally adopted by the industry. On December 6, announcement of price reductions was made; and because it was live news, papers all over the country gave it prominent display

A considerable number of prominent business men, bankers and Government officials were notified by telegram of the price reductions and the motives underlying the announcement; and many of them responded in characteristic telegrams and letters.

A telegram similar to that sent to Secretary of Commerce Hoover was answered by Col. Arthur Woods, who had been chosen by Hoover to be the working head of the President's Conference on Unemployment. Col. Woods wired:

"The action of the roofing manufacturers is as practical and patriotic a step toward relieving unemployment and starting up business right now as has come to the attention of the President's Conference on Unemployment up to this time. Similar action along other lines of industry would do a great deal toward providing work during the winter months; stimulate out-of-season activities and blot out the shadow of prospective bread lines and soup kitchens."

"Similar action on the part of other manufacturers," wired James B. Forgan, head of the First National Bank, Chicago, "would do much to diminish unemployment and consequent suffering during the coming winter and thus also prevent growth of radicalism."

Others who publicly approved the purposes of the price slashes were Charles H. Sabin, chairman of the Board of Directors of the Guaranty Trust Company, New York; W. C. Teagle, head of the Standard Oil Company, of New Jersey; Daniel G. Wing, president of the First National Bank, Boston; F. O. Watts, President of the First National Bank, St. Louis; Roger W. Babson, the business and financial statistical expert; W. F. Ramsey, head of the Federal Reserve Bank at Dallas, and F. Edson White, vice-president of Armour & Co. In his telegram, Mr. Teagle said that his own company had reduced prices on bituminous products, which enter largely into the manufacture of prepared roofing, 34 or 42 per cent. compared with middle-of-December prices, 1920. His further comment is of interest:

"Whether or not this reduced price can be maintained is dependent upon the action of the Mexican Governmen in respect to taxation of crude petroleum from which these products are derived."

It was the expected that happened. Manufacturers of asphalt roofing generally fell in line with the reasoning of the leader; and throughout the industry prices were cut not only on the patented strip shingle, but on every other important line of asphalt roofing. And within forty-eight hours after the announcement of the reductions, orders had poured into the factories in excess of the most optimistic predictions.

Manufacturers are running full time, and expect to carry on full handed during the entire period of normally slack production. The first small increase in quotations failed to check the flow of orders; and the activity of the roofing plants has been reflected in abnormal winter production of felt mills and other producers of the raw materials of prepared roofing.

Best of all, a state of mind favorable to the immediate forwarding of residential building and roof repairing (rather than patching) has been created. Manufacturers in this industry are cordially recommending this courageous, surgeon-like cure for the winter depression which comes from decreasing output and dishearteningly continuous "overhead."

* * *

THAT construction can go forward in spite of winter weather is assured when we review the results of the President's Conference on Unemployment. Due to the Conference, an unusual amount of out door work has been planned by City and State officials in order to provide work for the unemployed.

"Although the returns are incomplete," says Colonel Arthur Woods, chairman of the standing committee, "it is safe to estimate that several hundred thousand more men will be employed on public work this winter than last year, thus making up to that extent discharges from other industries. This is in line with experience in Canada, where much outdoor work on public projects has been done in winter to help the jobless.

Among the states now doing highway work are Alabama, Illinois, Kansas, Kentucky, Minnesota, Nebraska, New Jersey, North Carolina, Rhode Island, Washington and West Virginia. Winter bridge building is going ahead in Delaware, Illinois, Kansas, Minnesota, Missouri, North Carolina, and Wisconsin.

In Boston, Mass., sewer contracts are being let with the distinct understanding that work will begin immediately regardless of weather conditions, with a view to giving much needed work to many. New York City informs the Washington authorities that the laying of water mains

(Continued on Page 65.)

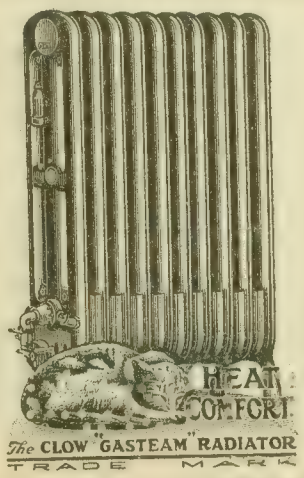


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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Parsonage, Tabor road, Olney, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, St. James' Methodist Episcopal Church, care of Rev. E. F. Randolph, 137 East Tabor road, Philadelphia. Stone, 2 stories. Plans in progress.

Supplies, Philadelphia. Owners, City of Philadelphia, care of A. Lincoln Acker, P. A., 312 City Hall. Grass seed, lumber, cement, sand, gravel, valves, copper wire. Owners taking bids due February 2nd at noon.

Supplies, School District of Philadelphia. Owners, Board of Education, William Dick, secretary, Nineteenth above Chestnut street. Steel lockers, lumber, flags, manual training machinery, etc. Owners taking bids due February 9th at noon.

Bath House, 2907-09 West Dauphin street, Philadelphia, $25,000. Architect, private plans. Owner, Louis Feldman, 5016 Parkside avenue, Philadelphia. Brick, 2 stories, 32x80 feet, slag roof, cement floors, steam heating. Owner will build.

Stadium, Thirty-fourth and Spruce streets, Philadelphia. Engineer, Gavin Haddon, 233 Broadway, New York City. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, care of Sydney E. Hutchinson, 425 Walnut street, and C. L. Borie, Otis Building, Philadelphia. Consulting architects, Day & Klauder, 1416 Chestnut street, Philadelphia. Concrete, brick and steel, 673x472 feet exterior, 400x320 feet interior, area 7.3 acres. Plans in progress. Will be ready for bids in one month.

Sisterhood and Social Hall, Fifty-ninth and Walnut streets, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Rothschild Memorial, care of Edward L. Rothschild, Atlantic City, N. J. Granite and brick, 2 stories and basement, 40x92 feet. Preliminary plans in progress. Too early for details.

Bungalow, Torresdale, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Stone and stucco, 1½ stories, 50x50 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans completed. Architect will be ready for bids in one week.

Residence, Allen Lane, Mt. Airy, Philadelphia. Architect, Samuel D. Hawley & Co., 30 South Seventeenth street, Philadelphia. Owner, Mrs. James S. Taylor, 154 East Mt. Airy avenue, Philadelphia. Stone, 2½ stories, 25x50 feet, garage, 1 story, 20x22 feet, slate roof, hardwood floors, hot water heating, electric lighting, cement floor. Architect will be ready for bids in two weeks.

Residence, Queen Lane Manor, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, slate roof. Preliminary plans in progress.

Residences (30), Atwood road and Lansdowne avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John J. Marshall, care of J. Tasey, 1070 Drexel Building. Brick, 2 stories, 18x32 feet, slag and tin roof, hardwood floors, hot water heat, electric lighting, hollow metal skylights. Owner will be ready for sub-bids in one week.

Residence (alts.), South side of Baltimore avenue, West of Forty-second street. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Changing residence into 3 apartmets, hot water heating, electric lighting, tile and marble work, hardwood floors. Will be ready for bids in two weeks.

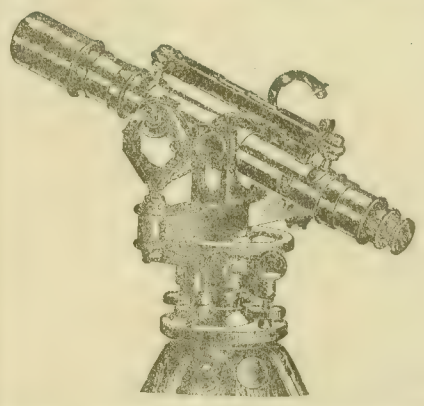
Stores and Offices, Sixty-ninth street, Philadelphia. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, name withheld. Brick, 2 stories, 50x90 feet, slate roof, hardwood floors, steam heat, electric light. Architect will be ready for bids next week.

Store Building, 3926-28 Lancaster avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, George B. Davis, on premises. Brick, 1 story, 94x32 feet, slag roof, maple floors, metal lath, marble and terrazzo work, hollow metal skylights, Bond, iron work (heating, electric work reserved.) Architects taking bids due January 26th. H. John Homan, 34 South Seventeenth street; Bowden Const. Co., 1713 Sansom street; Warren E. Biscoe, 3940 Ludlow street, and Harry G. Walters, 3821 Lancaster avenue, are figuring.

Residence, Wyndmoor avenue, Stenton, Philadelphia. Architect, William P. Parker, 1310 Arch street, Philadelphia. Owner, Miss Sarah E. Finch, 153 East Washington Lane, Germantown. Hollow tile and stucco, 2½ stories, 29x35 feet, shingle roof, oak floors, hot water heat, electric lighting, tile work. Architect taking bids due January 30th. David Sloan, 5242 Germantown avenue; Wolverton & Co., 28 East Willow Grove avenue; George S. Roth & Son, 230 East Gravers Lane; Tourison & Tourison, 1310 Arch street, Philadelphia; W. John Stevens, Inc., Wyncote, Pa., and E. Allen Reeves, Inc., Abington, Pa., are figuring.

Nurses' Dining Room (alts.), Old York Road, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Jewish Hospital, Old York Road, Philadelphia. Cement work ,carpentry, mill work, painting, plumbing, changing electric work, tile work. Architects taking bids due January 26th. F. E. Wallace, 1220 Chancellor street; William R. Dougherty, 1610 Sansom street, and Thomas C. Trafford, 1613 Sansom street, Philadelphia, are figuring.

Store Building (alts.), 1804 Chestnut street, Philadelphia. Architects, Savery & Scheetz, 1309 Locust street, Philadelphia. Owners, Joseph C. Ferguson, Jr., 10 South Fifteenth street, Philadelphia. New brick, cut stone front, terrazzo floors, iron work, hollow metal windows, steel sash, slag roof, rolled steel skylights, pine floors, oak floors, metal lath, composition floors, painting, glazing (plumbing, heating and electric work reserved). Architects taking bids due January 28th. Bowden Const. Co., 1713 Sansom street; F. M. Harris



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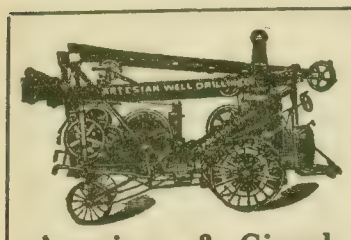
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Church (rebuilding), Sixteenth and Tioga streets, Philadelphia. Architect, Edwin A. Yeo, 225 South Sydenham street, Philadelphia. Owners, Tioga Presbyterian Church, on premises. Cut stone, slag, tin and slate roof, pine floors, mill work, carpentry, plastering, metal lath, painting, glazing, hardware, tin-covered doors, hollow metal sash, iron work, structural steel work (heating, lighting, plumbing, tile and marble work separate bids). Architect taking bids due January 31st. R. C. Ballinger Co., 925 Walnut street; F. L. Hoover & Sons, 1023 Cherry street; A. R. Raff Cont. Co., 1635 Thompson street; E. H. Keefer & Son, 1321 Rodman street; William E. Hale, 1626 Ludlow street; Thomas C. Trafford, 1613 Sansom street; F. E. Wallace, 1280 Chancellor street; H. H. Burrell, 206 South Quince street; Henry P. Schneider, 3713 Old York road, and Bowden Const. Co., 1713 Sansom street ,are figuring.

Apartments (2), East side of Thirty-third, South of Diamond street, Philadelphia. Architect, private plans. Owner, Jacob Levick, 707 Walnut street, Philadelphia. Brick, 2 stories and basement, 110x40 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Owner taking approximate bid from Frank G. Stewart, 1619 Sansom street.

Residence (alts. and add.), 4937 Wayne avenue, Philadelphia. Architect, private plans. Owner, Romeo De Rosa, on premises. Brick, 3 stories, 26x16 feet, slag roof, oak and pine floors, metal lath, hot water heat, electric lighting, tile work. Bids due January 31st. Pierce Henon Co., Juniper and Pine streets, Philadelphia, are figuring.

General Warehouses, No. 209 (alts.), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, United States Government, Office of Const. Q. M., Frankford Arsenal, Philadelphia. Wire partitions, mill work, carpentry, hardware, painting, glazing, kalamein doors, Bond. Owners taking bids due January 31st. W. W. Anstine Co., Heed Building, and George H. Evans, Inc., 109 North Thirteenth street, Philadelphia, are figuring.

Underground Comfort Station, MacPherson Square, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, care of Frank H. Caven, 216 City Hall. Brick, 1 story, 40x32 feet, concrete and dirt roof, cement floors, hollow tile, waterproofing, iron work, marble work. Owners taking bids due January 26th. Monaghan & Losse, Inc., 3016 Chestnut street; George H. Evans, Inc., 109 North Thirteenth street; Mundy Paving Co., 228 S. Alder st.; W. W. Anstine Co., 1218 Filbert st.; O. B. S. Company, 5617 Kingsessing avenue; Mitchell-Houseworth Co., 2512 North Twenty-seventh street; James Shatz, 2500 Germantown avenue; P. M. Colen, 2603 Poplar street; James Kelley Const. Co., Bulletin Building; Robbins Cont. Co., 1137 North Front street; Connor & Ley, 3621 North Fifth street; Jackson & Co., 119 South Fourth street; Mitchell Brothers, 2125 Race street; Charles Connor, 2062 Auburn street; Holmesburg Concrete Co., Holmesburg, Philadelphia; George Dobbin, 4615 Springfield avenue; F. A. Havens Co., 845 North Nineteenth street; Joseph Cramer, 1739 North Twenty-sixth street; Farrel-Roth, 122 Diamond street; Nelsn-Pedley Cons. Co., 1615 Spruce street, are figuring.

Store (alts.), Southeast Corner Market and South Water streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York. Owners, United Cigar Stores Co., 44 West Eighteenth street, New York City. Iron and steel work, carpentry, mill work, hardware, plumbing, painting, tile and marble work (heating, plate glass, glazing, kalamein and copper doors reserved). Owners have received bids.

Building, Glenwood avenue and Oxford street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, J. C. Kahn, 302 Morris Building, Philadelphia. Concrete and brick, 2 stories, 310x125 feet, slag roof, cement floors, demolition (heating, electric work, plumbing and elevators reserved), hollow metal sash and skylights, tin covered doors. Architect has received bids.

Garage, 1830-40 South street, Philadelphia. Architect, Architectural Service Co., 10 South Eighteenth street, Philadelphia. Owner, Morris Liebowitz, 4155 Cambridge street, Philadelphia. Brick, 1 story, 39x65 feet, slag roof, cement floors (plumbing, steam or hot water heating and electric work reserved). Owner has received bids.

Store and Office Building, Fifth and Rising Sun avenue, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, Frank Coscarelli, 102 Shunk street, Philadelphia. Brick and steeel, 3 stories, 80x90x40 feet, slag roof, pine floors, metal lath and ceilings, ornamental iron work, tile and marble work, steam heating, electric lighting. Owner has received bids.

Club House, Twelfth street and Valley road, Oak Lane, Philadelphia. Architect, W. Ellis Groben, Oak Lane, Philadelphia. Owners, Review Club, care of Mrs. E. Clarence, Oak Lane, Philadelphia. Stone and plaster, 1 and 2 stories, 40x90 feet, slate roof, hardwood floors, hot water heating, electric lighting. Architect is taking sub-bids.

Carr Storage Building (add.), Frankford avenue, South of Lehigh, $5,000. Architect, private plans. Owners, P. R. T. Co., 810 Dauphin street, Philadelphia. General interior alterations. Owners will build.

Residence, 7249 Torresdale avenue, Philadelphia, $4,000. Architect, private plans. Owner, Emanuel Hlavack, 7251 Cottman street, Philadelphia. Brick, 2 stories, 20x43 feet and 16x17 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (4), Frankford avenue, North of Bridge street, $4,200 each. Architect, private plans. Owner, A. W. Corney, 5746 Frankford avenue, Philadelphia. Brick, 2 stories, 14x33 feet, 11x12 feet, (1) 15x45 feet, and (1) 14x45 feet, 9x45 feet, slag roof, oak floors, pine floors, hot water heat, electric light. Owner will build.

Storage Building, Kennedy street, East of Richmond street, $4,000. Architect, private

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plans. Owners, Charles Lennig Co., on premises. Stone, 1 story, 33x53 feet, slag roof, cement floors. Owners will build.

Residences (35), Price street, between Boyer and Sprague streets, Philadelphia. Architect, private plans. Owner, James N. Mitchell, 45 South Farragut Terrace, Philadelphia. Brick, 2 stories, 18x34 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner is taking sub-bids.

Residences (12), Chew street, between Haines and Price street, Philadelphia. Architect, private plans. Owner, James N. Mitchell, 45 South Farragut Terrace, Philadelphia. Brick, 2 stories, 17x46 feet, slate and slag roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Mercantile Building, 1222-1240 Vine street, Philadelphia. Architects, Gen. Const. and Eng. Corp., 7 South Seventeenth street, Philadelphia. Owner, George W. Boyer, 7 South Seventeenth street, Philadelphia. Brick, cut stone and steel, 2 stories, 160x85 feet, slag roof, pine floors, metal lath, steam heat, electric light, marble work, iron work. Owner taking bids. Penn Const. and Eng. Co., 3840 Spring Garden street, and John N. Gill & Co., Otis Building, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alts. and add.) and Garage, St. Martin's, Philadelphia. Architect, A. H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, N. M. Seabrease, on premises. Brick and cut stone, 1 story, 15x8 feet, and 1½ stories, 20x25 feet, shingle roof, cement, oak and pine floors, metal lath, plastering, hot water heat, electric lighting, plumbing, painting, glazing, iron work. Contract awarded to John E. Walt, 204 East Willow Grove avenue.

Store (alts. and add.), 1628 Walnut street, Philadelphia. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Westing, Evans & Egmore, Inc., 1325 Walnut street. Brick add., 2 stories, 20x50 feet, slag roof, hardwood floors, steam heating, electric lighting, marble work, rolled steel sash and skylights, plumbing, painting, glazing, hardware. Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

Residence, Roxborough, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Mrs. C. S. Mears, Roxboro, Philadelphia. Stone and frame, 2½ stories, 25x35 feet, shingle roof, hardwood floors, hot air heating, electric lighting, tile work. Contract awarded to E. Allen Reeves, Abington, Pa.

Building (alts. and add.), Nineteenth and Fairmount avenue, Philadelphia, $3,500. Architect, private plans. Owner, George L. Helwig, Southeast Corner Nineteenth and Fairmount avenue. Stone masonry, brick and steel, slag roof, carpentry, mill work, plastering, metal lath, painting, glazing, metal ceilings, tile work. Contract awarded to John W. Emrey Co., 34 South Sixteenth street.

Residence (alts.) to Offices, 417 South Eighth street, Philadelphia. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, Dr. J. Siblerstein, Eighth and South streets, Philadelphia. Brick work, new partitions, hot water heating, electric lighting. Contract awarded to M. J. Benamy, 5758 North Fifth street, Philadelphia.

Factory, 1122-28 Olive street, Philadelphia, $23,000. Architect, private plans. Owner, J. M. White, on premises. Brick, 2 stories, 54x64 feet, 17x16 feet, slag roof, yellow pine floors, steam heating, electric lighting. Contract awarded to F. I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Residence and Store (alts. and add.), Southwest Corner Jefferson and Lindenwood, $2,100. Architect, private plans. Owner, A. Kolicoff, Thirty-first and Gordon streets, Philadelphia. Brick, 2 stories, 16x7 feet, tin roof, yellow pine floors, electric light. Contract awarded to Max Charlick, 3109 Dauphin street.

Film Exchange (add.), 1323 Vine street, Philadelphia, $9,000. Architect, private plans. Owners, Metro Film Co., care of Robert Lynch, 1321 Vine street, Philadelphia. Brick, 3 stories, 56x16 feet, slag roof, pine floors, electric light. Contract awarded to Warren Brothers, 1123 Cherry street, Philadelphia.

Office, 1422 North Eighth street, Philadelphia, $5,000. Architect, private plans. Owners, E. J. McAleer Co., on premises. Brick, 1 story, 38x50 feet, slag roof, steam heat, electric light. Contract awarded to A. Raymond Raff, 1635 Thompson street, Philadelphia.

Residence and Store (alts.), 1042 South street, Philadelphia, $3,000. Architect, private plans. Owner, E. Mutzman, 1044 South street, Philadelphia. Carpentry, mill work, bulk windows, painting, plate glass. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Business Building (alts.), 134 North Fourth street, Philadelphia, $3,000. Architect, private plans. Owner, William G. Sandy, Jr., 402 Cherry street, Philadelphia. Strengthening floors. Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

Wool Manufacturing Plant, southeast corner Schiller and Richmond sts., $30,000. Architect, private plans. Owners, S. & M. Dye Works, on premises. Brick, 2 stories, 49x162 feet, slag roof, yellow pine floors. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Garage, 2211-15 North Twenty-second st., Philadelphia, $7,500. Architect, private plans. Owner, Anna Steen, 2224 North Twenty-sixth street, Philadelphia. Brick, 1 story, 51½x56 and 82x54 feet, slag roof, cement floors, electric lighting. Contract awarded to Charles Steen, Jr., 2224 North Twenty-sixth street, Philadelphia.

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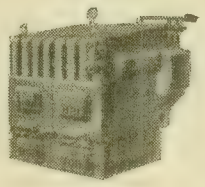
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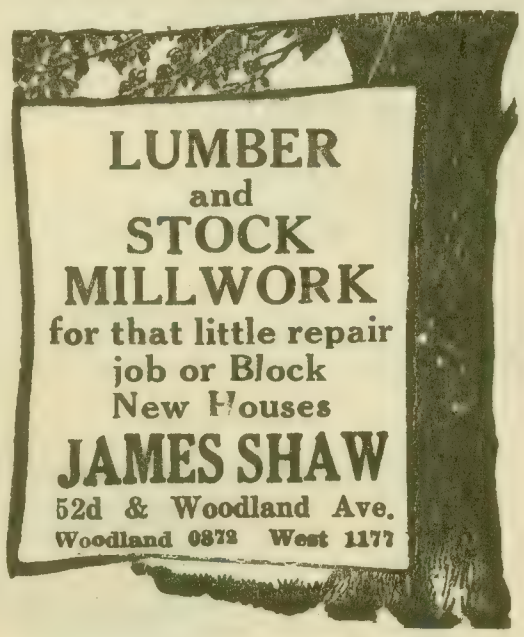
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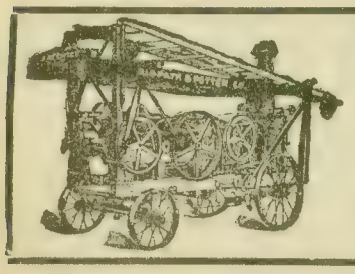
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and Cambria streets, $2,500. Architect, private plans. Owner, H. Rosenblatt, 2627 Germantown avenue, Philadelphia. Brick, 1 story, 22x32 feet, slag roof, yellow pine floors. Contract awarded to M. Cherry, 137 North Tenth street, Philadelphia.

Show Room and Garage, 175 feet north of northwest corner of Broad and Wyoming avenue, Philadelphia. Architect, J. S. Fuller, 1537 Chestnut street, Philadelphia. Owner's name withheld. Brick and limestone, 1 story, 60x177 feet 10 inches, slag roof, cement, hardwood and maple floors, steam heat, electric lighting, marble work, rolled steel sash and skylights, sliding doors, magnesite stucco. Contract awarded to Long & White, 44 Armat street, Germantown, Philadelphia.

Residence (alts.) to Apartments, 2631 Girard avenue, Philadelphia. Owner, George Rentschler, on premises. Carpentry, millwork, painting, glazing, plastering, metal lath (heating, plumbing and electric work reserved). Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson sts.

PENNSYLVANIA
Construction News

School (add.), Auditorium and Gymnasium, Conshohocken, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School District of Conshohocken, Pa. Preliminary plans in progress. Too early for details.

Hospital (alts.), Norristown, Pa. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owners, Hospital for Insane, care of Oscar L. Schwartz, Norristown, Pa. Alterations and additions to plumbing, heating and electric lighting system of male nurses' home. Owners, care of Steward Schwartz, taking bids due February 1st at 3 P. M.

Twin Residences, Harleysville, Pa. Architect, Jerome S. Landes, 200 Broad street, Souderton, Pa. Owners, John and Samuel Hauck, Harleysville, Pa. Brick, 2½ stories, 36x43 feet, slate roof, pine floors, hot water heating, electric lighting. Plans completed. Owners will be ready for bids about March 15th.

Bungalow, Hatfield, Pa. Architect, Jerome S. Landes, 200 Broad street, Souderton, Pa. Owner, Mrs. Anna Weirman, Hatfield, Pa. Brick, 1½ stories, 16x40 feet. Preliminary plans in progress. Too early for details.

Residence, Walnut street, Souderton, Pa. Architect, Jerome S. Landes, 200 Broad street, Souderton, Pa. Owner, Mrs. Elizabeth Dewey, Souderton, Pa. Frame and stucco, 1½ stories, 24x30 feet, slate roof, hot water heating, electric lighting. Plans in progress. Will take bids in two months.

Bank (add.), Williamsport, Pa., $150,000. Architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owners, First National Bank, Williamsport, Pa. Brick and stone, 3 stories, 50x70 feet. Preliminary plans in progress.

Twin Residence, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, H. E. Brandt, Walnut street, Royersford, Pa. Brick, 2 stories, 29x36 feet, stone foundations, slate roof, yellow pine floors and oak floors, steam heat (heating, lighting, plumbing reserved). Plans in progress.

Plant, Williamsport, Pa. Architect, not yet selected. Owners, Moore Building Supply Co., N. A. Moore, president, Milton, Pa. Two stories, 50x120 feet. Details undecided.

Mill (alts. and add.), Weisport, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Bowman Silk Co., Weissport, Pa. Brick, 2 stories, 14x60 feet, tin roof, maple floors, elevators, rolled steel sash, fire doors (heating, plumbing and electric work reserved). Plans in progress. Owners will take bids in a few days.

Residence, Weissport, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Bowman Silk Co., Weissport, Pa. Brick, 2 stories, 25x40 feet, built-up roof, oak floors, tile work (heating reserved). Owner will take bids in a few days.

Residence, Abington, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Frame and stone, 2½ stories, 60x30 feet, slate roof. Preliminary plans in progress.

Bungalow, Roslyn Park, Roslyn, Pa. Architect, private plans. Owner, Roy Randall, Horsham, Pa. Face brick and frame, 1½ stories, 24x34 feet, concrete foundations, shingle roof, oak and pine floors, hot air heat, electric light, tile work. Owner will build and is taking sub-bids.

Residence, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Cleveland Kmmrer, Beth-

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Composition Flooring

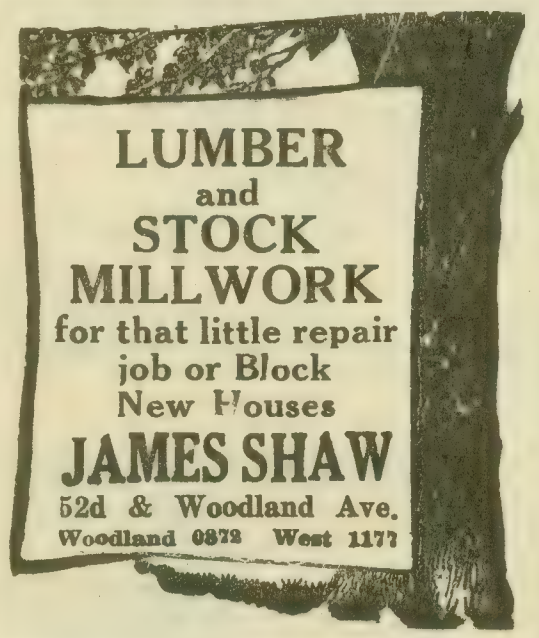
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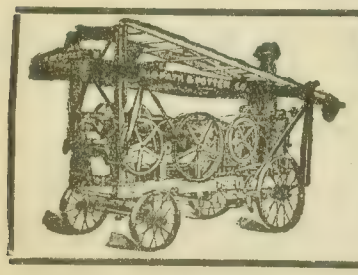
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Plant, Williamsport, Pa. Architect, not yet selected. Owners, Moore Building Suppiy Co., N. A. Moore, president, Milton, Pa. Two stories, 50x120 feet. Details undecided.

Mill (alts. and add.), Weisport, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Bowman Silk Co., Weissport, Pa. Brick, 2 stories, 14x60 feet, tin roof, maple floors, elevators, rolled steel sash, fire doors (heating, plumbing and electric work reserved). Plans in progress. Owners will take bids in a few days.

Residence, Weissport, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Bowman Silk Co., Weissport, Pa. Brick, 2 stories, 25x40 feet, built-up roof, oak floors, tile work (heating reserved). Owner will take bids in a few days.

Residence, Abington, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Frame and stone, 2½ stories, 60x30 feet, slate roof. Preliminary plans in progress.

Bungalow, Roslyn Park, Roslyn, Pa. Architect, private plans. Owner, Roy Randall, Horsham, Pa. Face brick and frame, 1½ stories, 24x34 feet, concrete foundations, shingle roof, oak and pine floors, hot air heat, electric light, tile work. Owner will build and is taking sub-bids.

Residence, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Cleveland Kmmrer, Beth-

lehem, Pa. Frame, 2½ stories, 25x40 feet, shingle roof, pine floors, hot water heat, electric light, pine floors. Plans in progress.

Residence, Delaware avenue, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, A. H. Boyer, Bethlehem, Pa. Brick, 2½ stories, 35x38 feet, slate roof, hardwood floors, hot water heat, electric light. Plans in progress.

Apartment House and Garage, Nazareth, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Frank Messinger, Nazareth, Pa. Brick, 3 stories, 40x160 feet, slag roof, cement and maple floors, electric light, tile, marble and terrazzo work, metal lath (heating reserved). Owner ready for bids.

Memorial Science Building, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian College & Theological Seminary, care of architect. Steel, brick, 3 stories, 40x70 feet, concrete foundations, slate roof, hardwood floors, hot water heat, electric light, tile work, metal lath, safety treads, roof ventilators. Architect will take bids in one week.

Junior High School, South Side, Easton, Pa. Architects, William Michler and J. W. Shnyder, Drake Building, Easton, Pa. Owners, School Board of Easton, R. E. Peifer, secretary, Easton, Pa. Stone, 2 stories and basement, 250x65 feet, slag roof, maple floors, tile, marble and terrazzo work, roof ventilators, rolled steel skylights, ornamental iron work. Plans in progress.

High School, Easton, Pa. Architects, Michler & Shnyder, Drake Building, Easton, Pa. Owners, School Board of Easton, R. E. Peifer, secretary, Easton, Pa. Reinforced concrete, brick and steel, 3 stories and basement, 250x200 feet, slag roof, maple floors, tile, marble and terrazzo work, metal lath, safety treads, roof ventilators, iron stairs and work (plumbing, heating and electric work reserved). Plans in progress.

Garage, Kingston, Pa. Architects, Knapp & Bosworth, 16 South Franklin street, Wilkes-Barre, Pa. Owners, Imperial Motors Corp., 45 West Marker street, Wilkes-Barre. Brick and steel, 2 stories, 200x50 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, fire doors, metal lath, elevators, roof ventilators. Architects taking bids due January 27th. William Whitesell, Westmoor, Pa.; Watkins & Malpass, Plymouth, Pa.; Bethlehem Fabricators, Bethlehem, Pa.; Phoenix Iron Co., Phoenixville, Pa.; Austin Co., Bulletin Building, Philadelphia; William J. Kear, 59 Gildersleeve street; John A. Schmitt & Sons, Bennett Building; John Curtis & Co., 1 Hickory street; Herman Mailander, 167 Barney street; O. J. Behrens & Son, 179 Blackman street; W. B. Richards, 40 Carlisle street; A. D. Thomas, 370 South Main street; M. L. Roth, 127 South Wellis street; Walborn & Barney, 175 Race street; E. T. Long & Co., Coal Exchange Building, Wilkes-Barre, Pa., are figuring.

Bank, Danville, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, First National Bank, Danville, Pa. Brick, limestone, 1 story, 40x85 feet, slag roof, marble work, tile work, hollow tile, electric light, rolled steel sash and skylights, roof ventilators, metal window guards, bank fixtures. Owners taking bids. Amster Const. Co., 705 East One Hundred and Thirty-third street, and F. D. Hyde, 90 West street, New York; Shepherd Const. Co., Miners' Bank Building, Wilkes-Barre, Pa.; Albert Boyer, Northumberland, Pa.; Shamokin Lumber & Const. Co., Shamokin, Pa., and Berwick Lumber Supply Co., Berwick, Pa., are figuring.

Store Building, Main street, Wilkes-Barre, Pa. Architects, Knapp & Bosworth, 16 South Franklin street, Wilkes-Barre. Owner, Mrs. James F. Rusling, care of architects. Brick, steel, 3 stories, 40x209 feet, slag roof, cement floors, steam heat, electric light, tile and marble work, metal lath, rolled steel sash, fire doors, ornamental iron work. Architects have received bids.

Residence, Porter and March streets, Easton, Pa. Architect, William M. Michler, Easton, Pa. Owners, Mrs. William Hackett, care of architect. Hollow tile and stucco, 2½ stories, 51x19 feet, slate roof, pine floors, hot air heating, electric lighting, iron work. Architect has received bids.

School Annex, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, School Board of Allentown, T. P. Wenner, secretary, Allentown. Brick, steel, 2 stories and basement, slag roof, hardwood floors, tile, marble and terrazzo work, metal lath, roof ventilators, rolled steel skylights, fire doors, water and dampproofing, iron stairs, ornamental iron work (heating, plumbing and electric work reserved). Owners taking bids due February 1. Butz & Clader, Ainey Building; Ochs Const. Co., 440 Wire street; W. H. Gangwere, A. N. B. Building; George Hardner, Lentz Building; Ritter & Smith, 1227 Gordon street, Allentown; R. S. Rathbun Const. Co., 409 Vine street, Bethlehem, Pa., are figuring.

School Annex, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, School Board of Allentown, T. P. Wenner, secretary, Allentown. Brick, fireproof, 2 stories and basement, 65x100 feet, asphalt roof, concrete, tile and maple floors, tile and terrazzo work, metal lath, roof ventilators, metal window guards and weather strips, water and dampproofing, iron stairs (heating, electric work and plumbing reserved). Owners taking bids due Feb 1st. Ochs Const. Co., 440 Wire street; H. W. Hunsicker, 821 Chew street; Butz & Clader, Ainey Building; W. H. Gangwere, A. N. B. Building; Ritter & Smith, 1227 Gordon street; George Hardner, Lentz Building, all of Allentown, Pa.; R. S. Rathbun Const. Co., 409 Vine street, Bethlehem, Pa., and P. H. Kelly Cont. Co., 1713 Sansom street, Philadelphia, are figuring.

Residence, Brookline, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, A. Norburg, 1652 North Sixtieth street, Philadelphia. Frame and stucco, 2½ stories and basement, 30x29 feet, shingle roof, pine floors, hot water heat, electric lighting. Owner is taking sub-bids.

Passenger Station, Pottsville, Pa. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market sts., Philadelphia. Brick, stone, steel and con-

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crete, 7 stories. Work contemplated.

Residence (alts. and add.) Tamaqua, Pa. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owner, Harry Seligman, Tamaqua, Pa. Frame, 2 story addition, 15x20 feet, tile and tin roof, hardwood floors, tile work. Plans about completed. Architect will be ready for bids in two weeks.

Store and Office, Edgemont and Sproul sts., Chester, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, Wm. I. Schaffer, care of architect. Brick, 2 stories, 30x35 feet, slate and tin roof, pine floors, steam heat, electric light, plate glass. Architect taking bids, due February 1st. Wm. Provost, Jr., 1216 Walnut street; R. H. Scroggins, Crozer Building; Chester Const. & Cont. Co., Crozer Building, and Wm. G. Price, Law Building, Chester, Pa., are figuring.

Farm House, Newton Square, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, care of architect. Stone, 2½ stories, irregular size, slate roof, steam heat, electric light. Sketches in progress.

Residence and Group of Farm Buildings, Providence Road, Chester, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, Kingsley Montgomery, care of Architect. Terra cotta, tile and stucco, 2½ stories, 26x53 feet, wing 20x40 feet. Garage for 3 cars, shingle roof, vapor steam heat, electric light, tile work, hardwood and concrete floors, metal lath. Plans in progress.

School, Tuscarora, Pa. Architects, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owners, School Board of Tuscarora, Pa. Owners taking bids, due February 13th at 7 P. M. (Heating, plumbing and electric work separate bids.) Wills, Bill & Co., 1706 Sansom street, Philadelphia; Andrew Breslin, Summit Hill, Pa.; A. L. Groff, Tamaqua, Pa., and J. H. Eroh, Hazleton, Pa., are figuring.

Central Office Building (alts. and add.), Easton, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick, cut stone and steel, 2 stories, 85x34 feet, slag roof, cement floors, metal lath and window guards, bond, iron work, demolition, steam heat, electric light, tile and marble work, sheet metal sash. Owners taking bids, due January 30th. F. W. Van Loon, Perry Building, and F. L. Hoover & Son, 1023 Cherry street, Philadelphia, are figuring.

Pennsylvania Contracts Awarded

Hospital (Surgical Building and Robert H. Crozier Hospital), 94 Penn street, Chester, Pa. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Chester Hospital, Chester, Pa. Brick, steel and cut stone, slag and promenade tile roof, cement and composition floors, hollow tile, metal lath ,safety treads, roof ventilators, metal weather strips, waterproofing, terra cotta, iron work and stairs, floor hardener, Bond, rolled steel shutters, fire, kalamein and steel tube doors, copper skylights, sheet metal sash, tile, terrazzo and marble work, demolition. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia, $205,000. Plumbing and drainage to Burton L. Marker, Chester, Pa., $21,250. Heating and ventilating, Burton L. Marker, Chester, Pa., $40,448.

Garage, Ardmore, Pa. Architect, William G. Wayne, Jr., 1501 Spruce street, Philadelphia. Owner, Andrew Wheeler, 2137 Locust street, Philadelphia. Stone, brick and steel, 2 stories, 41x58 feet, slag roof, cement and pine floors, hollow tile, waterproofing, terra cotta, iron work, marble work. Contract awarded to Gray Brothers, Rosemont, Pa.

Store and Apartment (alts.), Hughesville, Pa. Architect, F. A. Rianhard, Masonic Temple, Williamsport, Pa. Owner, Charles A. Cadman, Hughesville, Pa. Frame, 3 stories, 54x110 feet, stone foundations, hollow tile, metal lath, electric light (heating and plumbing reserved), fire doors, store fixtures, metal ceilings, waterproofing. Contract awarded to Mr. Ball, Hughesville, Pa.

Residence, Penfield, Pa. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, George Welsh, care of architect. Hollow tile, 2 stories, 25x43 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to R. Ward, 633 North Sixty-third street, Philadelphia.

Residence, Springfield, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, H. J. Polstring, Lafayette Building, Philadelphia. Hollow tile and stucco, 2½ stories, 26x30 feet, shingle roof, hardwood and pine floors, hot water heat, electric lighting, tile work. Contract awarded to Leedom Bros., 5313 Webster street, Philadelphia.

High School, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, 121 Chestnut street, Harrisburg, Pa. Steel, brick, fireproof, 1 story and basement, Unit A, 274x138 feet; Unit B, 182x138 feet, composition roof, cement and wood floors, steam heat, electric light, metal lath, marble and terrazzo work, rolled steel sash and skylights, roof ventilators, iron stairs. Contract awarded to S. W. Shoemaker & Son, 421 Walnut street, Harrisburg, Pa., $202,630. Heating, Eugene **Fogarty, 1121 North Front** street, Harrisburg, $29,300. Electric, Lord Electric Co., 105 West Fortieth street, New York City, $7,400.

NEW JERSEY Construction News

Bank, Blackwood, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owner, Blackwood Bank, care of architect. Brick and stone, 1 story, 34x44 feet, slag roof, marble floors, steam heat, electric light, marble work, bank fixtures, vault. Architect ready for bids.

Bungalow, Sea Isle City, N. J. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, W. S. Hitchner, Sea Isle City, N. J. Concrete block and frame, 1 story and basement, 32x22 feet, asphalt shingle roof, pine and cement floors, electric lighting, plumbing. Owner will be ready for bids in ten days.

School, Blue Anchor, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Board of Education of Winslow Township, care of architect. Brick, 1 story, 4 rooms. Too early for details.

Twin Residences, Bridgeton, N. J. Architect, Walter Custer, Law Building, Camden, N. J. Owner, Mr. Luther Meyers, care of architect. Frame, 2 stories, 36x38 feet, shingle roof, pine floors, hot water heat, electric light. Plans in progress.

Residence and Office (alts. and add.), Collingswood, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, J. R. Bailey, care of architect. Brick, 2 stories, 16x55 feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

Double Residence, North Merchantville, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, W. Winton, care of architect. Frame, 2½ stories, 26x47 feet, single roof, hardwood floors, hot water heat, electric light. Plans in progress.

School (add.), Maple Shade, Hamilton Township, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Board of Education of Hamilton Township, W. Robison, secretary, Greenwood School, Maple Shade, N. J. Brick, 6 rooms. Too early for details.

School (add.), Klockner School, Hamilton Township, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Board of Education of Hamilton Township, N. J. Brick, 4 rooms. Too early for details.

Hall (alts.) to Stores, Apartments and Lodge, South Broad street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, S. Hilton & Bash, Forst Richey Building, Trenton, N. J. Brick, 1 story, 20x40 feet, slag roof, pine floors, electric light, plumbing, copper work, plate glass, general interior work. Plans in progress.

Apartment House, Hermitage and Bellevue avenues, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, William Murphy, North Warren street, Trenton, N. J. Brick, 4 stories, 32x65 feet, slag roof, pine floors, steam heat, electric light, marble work, tile work. Plans nearly completed.

School, Parkway, Ewing Township, Mercer County, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Ewing Township School Board, C. G. Berwyn, chairman, Building Committee, Ewing Township, Mercer County, N. J. Brick, 1 story and basement, 92x87 feet, concrete foundation, slate and slag roof, maple and concrete floors (heating, plumbing and electric work reserved), hollow tile, metal lath, Spanish tile work, rolled steel skylights, fire doors, roof ventilators, structural steel work, floor hardener. Owners will be ready for bids about February 1st.

Building, 3911 Atlantic avenue, Atlantic City, N. J. Architects, Associate E. N. Wotton, Atlantic City, N. J., and Byron H. Edwards, Philadelphia. Owner, A. Brodie, Atlantic City, N. J. Brick, 1 story, slag roof, cement floors, electric work. Lam Building Co., 1001 Wood street, Philadelphia, is figuring.

Residences (3), West State street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Ernest Rolison, care of S. Hilton, Forst Richey Building, Trenton. Brick and stucco, 2½ stories, 24x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

School (add.), Pennington road, Ewing Township, Mercer County, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Ewing Township School Board, care of C. G. Berwyn, chairman, Building Committee, Ewing Township, Mercer County, N. J. Brick, 1 story and basement, 4 rooms and auditorium, concrete foundations, slate and slag roof, maple and concrete floors, Spanish tile work, hollow tile, metal lath (heating, plumbing and electric work reserved), Mason safety treads, roof ventilators, waterproofing, fire doors, structural steel, floor hardener, concrete stairs. Owners will be ready for bids February 1st.

Apatment House, Ventnor, N. J. Architect. Samuel Abramson, 2315 Market street, Philadelphia. Owners, Mrs. F. Grotz, care of architect. Brick and terra cotta, 3 stories, 33x83 feet, Spanish tile roof, hardwood floors, hot water heat, electric lighting. Architect taking bids due February 2nd. John B. Kelly, 2313 Walnut street; Merion Const. Co., 2313 Walnut street; Robbins Cont. Co., 1137 North Front street, Philadelphia; Philip G. Hannum, Alex. Nedelman, 140 South Maryland avenue; J. Mathis & Son, and S. Dolinsky, all of Atlantic City, N. J., are figuring.

Junior High School, Elizabeth, N. J. Architect, C. Godfrey Poggi, Elizabeth, N. J. Owners, Board of Education, Elizabeth, N. J. Brick, cut stone and steel, 4 stories, 107x77 feet, 116x99 feet, slag roof, concrete, asphalt mastic, maple and composition floors, hollow tile, metal lath, safety treads, roof ventilators, metal window guards, metal ceilings, waterproofing, architectural terra cotta, iron work and stairs, floor hardener, fire and kalamein doors, saw-tooth skylights (heating, lighting and plumbing separate bids). Owners taking bids due January 26th at 8 P. M. P. H. Kelly Const. Co., 1713 Sansom street, is figuring.

Factory, rear of 320-22 North Front street, Camden, N. J. Architect, Horace M. Hokanson, 1713 Sansom street, Philadelphia. Owners, Standard Tank & Seat Co., care of Mr. Stedman, 314 North Front street, Camden, N. J. Reinforced concrete, 3 stories, slag roof, cement floors, metal lath, elevators, fire doors, rolled steel sash, vacuum heating, electric lighting. Owners have received bids.

High School, Swedesboro, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Board of Education, Swedesboro, N. J. Brick. Architects taking bids, due February 6th at noon. Wark Co., 231 South Broad street; Barclay White Co., 1713 Sansom street; Frank V. Warren, 132 South Seventeenth street; Cramp & Co., Denckla Building; H. E. Baton, 1713 Sansom street, and Wm. Linker Co., 735 Cherry street, Philadelphia, are figuring.

Service Station, Fernwood, N. J. Engineer, T. J. Wasser, Broad Street Bank Building, Trenton, N. J. Owners, New Jersey State Highway Department, care of A. L. Grover, Broad Street Bank Building, Trenton, N. J. Steam heating, plumbing, fire sprinkler system, electric power and lighting, water tanks and supports. Owners taking bids, due February 7th at 11 A. M. Deposit of $10.00 required.

New Jersey Contracts Awarded

Lumber Shed and Toilet Rooms, Camden, N. J. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, J. B. Van Sciver Co., Camden, N. J. Demolition awarded to Jump House Wrecking Co., Forty-third and Baltimore avenue, Philadelphia. General contract awarded to J. W. Draper, Camden, N. J.

Fernwood Service Station, Fernwood, Mercer County, N. J. Architect, private plans. Owners, State of New Jersey, Highway Department, Division of Bridges and Structures, Trenton, N. J. Brick and steel, 1 story, 406x100 feet, slag roof, cement and pine floors, rolled steel sash, rolled steel fire doors, bond (heating, electric lightin, separate bids). Contract awarded to Austin Co., Bulletin Building, Philadelphia.

Delaware Construction News

Apartment and Store (alts. and add.), Wilmington, Del. Architect, John McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Nathan Barsky, 904 West street, Wilmington, Del. Brick, plate glass, cut work, millwork, interior alterations. Architect taking bids, due as soon as possible. J. P. Reardon, Front and Harrison streets; C. H. Brice, 2801 Franklin street, and D. Buckley, 1702 Union street, Wilmington, Del., are figuring.

Masonic Home, near Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Masonic Order, care of W. Mayfield, 226 West Ninth street, Wilmington, Del. Stone, semi-fireproof, 2 stories, 35x115 feet, slate roof, composition and oak floors (plumbing, heating and electric work reserved). Revised plans in progress.

Warehouse, Fourteenth street, east of Clayton street, Wilmington, Del. Architect, John McKibbin, Industrial Trust Building, Wilmington, Del. Owner's name withheld. Brick and concrete block, 1 story, 40x180 feet, rubberoid roofing, cement floors, hot water heat, electric light (heating reserved), rolled steel doors. Architect taking bids, due January 25th. W. D. Haddock, 804 Orange street; J. E. Healy & Son, 707 Tatnall street, and Chas. Forwood, Boulevard and Twenty-first street, Wilmington, are figuring.

School and Assembly Room, location withheld. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner's name withheld. Brick, semi-fireproof, 2 stories, 15 rooms. Too early for details.

Residence, Middleneck, Md. Architect, E. C. May, DuPont Building Wilmington, Del. Owner's name withheld. Brick, 2½ stories, 88x28 feet, stone foundations, slate roof, hardwood floors, hot water heat, electric light. Contract awarded to Edw. Johnson, 1403 Harrison street, Wilmington, Del.

Miscellaneous Construction News

Residence, White Plains, N. Y. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, James J. Young, White Plains, N. Y. Stone, 2½ stories, 40x20 feet, shingle roof, hardwood and pine floors, hot air heating, electric lighting, tile work. Owner is ready for bids.

Infirmary A and B Wing, United States Public Health Service Hospital, Oteen, N. C. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Brick and steel, 3 stories, 217x56 feet, composition roof, cement, composition and pine floors, hollow tile, metal lath, safety treads, roof ventilators, dampproofing, iron work, floor hardener, steel doors (mechanical equipment and elevators separate bids). Owners taking bids due February 6th. F. W. Van Loon, Perry Building, Philadelphia, and Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Bank, 58 Bowery, New York City, $350,000. Architect, Clarence Brazer, 1133 Broadway, New York. Owners, Citizens' Saving Bank, on premises, care of architect. Cut stone, fireproof, 2 stories, 75x85 feet, marble and cork tile floors, steam heat, electric light, hollow tile, metal lath, tile and marble work, steel sash, elevators, roof ventilators, metal window guards, bank fixtures, water and dampproofing, ornamental iron work. Plans in progress. Architect will take bids April 1st.

Miscellaneous Contracts Awarded

Residence, Easton, Md. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, Charles Humphreys, Easton, Md. Frame, 2½ stories, 25x100 feet, slate roof, pine floors, hot air heating, electric lighting. Contract awarded to George E. Lane, Queenstown, Md.

City Memorial Hospital, Winston-Salem, N. C., $240,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, City of Winston-Salem, City Hall, Winston-Salem, N. C. Brick, 3 stories, 34x20 feet and 34x20 feet, 39x116 feet, 39x116 feet, 24x20 feet, 24x20 feet, 109x39 feet and 109x39 feet. Barrett and tile roof, cement, linoleum and composition floors, hollow tile, metal lath, roof ventilators, metal ceilings, water and dampproofing, terra cotta, iron work and stairs, bond, fire and hollow metal doors, copper skylights (heating, lighting, plumbing, tile and marble work, metal weatherstrips and elevators reserved). Contract awarded to DuPont Eng. Co., DuPont Building, Wilmington, Del.

(Continued from Page 56.)

and repairs on pumping stations will be carried on irrespective of weather conditions, and work has been started on a new $360,000 pier. Cleveland, Ohio, has awarded its contracts on sewers so as to keep 250 men busy all winter long.

Passaic Valley sewerage commissioners, of New Jersey, have $850,000 of sewers under way, giving work to about 1,000 men. In North Dakota, hauling and road graveling will continue throughout cold weather.

Rhode Island has an extensive program of highway construction and its chief engineer of roads informs the Conference that all its large projects will be continued during the entire winter, unless heavy snows prevent.

* * *

THE effect upon the development of Philadelphia of the Zoning Ordinance now proposed by the Zoning Commission, will be so far reaching that it is to the interest of every citizen carefully to study the ordinance and the effect of similar ordinances in other cities. Intense interest has already been manifested in the ordinance, and meetings are being held where the pros and cons are carefully weighed, and expert opinion given and discussed. The Philadelphia Chapter of American Institute of Architects has declared itself strongly in favor of the Ordinance in the following statement:

"The zoning ordinance for the City of Philadelphia has at last become a live issue and is being openly discussed at a series of public hearings at City Hall.

"To many the idea appears as an experiment, the advantages of which are

but vaguely understood, but to those who are familiar with the advantages of comprehensive city planning as furthering the best interests of any congested community—the distinct benefits—of city zoning are very apparent.

"Zoning is not an experiment. It now exists in some sixty cities of the United States, and in no instance has it been withdrawn after its adoption. It is merely a cog in the attempt to improve city planning, and the larger a city grows the more essential a plan becomes. The Philadelphia Chapter of the American Institute of Architects has strongly urged the Mayor to appoint a City Planning Commision, and now even more than before this should be done, because the zoning of a city must work hand and hand with the comprehensive plan.

"The general benefits to be obtained by zoning may be briefly summarized as follows:

"First. The protection of residential districts from invasion by industrial establishments or inferior or incongruous improvements.

"Second. The defining of industrial areas and the provision of better connection and service between them and the rail and water terminals.

"Third. The control of the development of property for the purpose for which it is best adapted.

"Fourth. The limitation of the heights of buildings and the regulation of the light and air space around them.

"Fifth. The stability, permanence and economy of public and private improvement resulting from the pre-determination of the character of development in the territory to be served by them.

"Sixth. The stability of value existing or created through the harmonious development of a particular district.

"Seventh. Increased economy and efficiency of street improvement and the construction of public roads.

"Eighth. The simplification of the problems through foreknowledge of the distribution of population and trade.

"Ninth. The regulation of the occupancy and use of land in the interests of home-making, home-owning and home-protection.

"The zoning ordinance is so written that it is flexible and may be amended to meet changing conditions. It should be adopted on its present form and there should exist no doubt in the mind of progressive citizens that it is a mere far-sighted measure for the good of the community."

At a meeting held last week, Edward M. Bassett, counsel of the Zoning Commission of New York City, advocated the holding of a referendum upon the height limit question in the various localties affected. Mr. Bassett described the benefits derived by New York from its zoning ordinance. Fifth Avenue, for instance, has been rescued from the fate of becoming a garment manufacturing center, instead of a shopping district, because of the ordinance.

"But," said Mr. Bassett, "it is perhaps a bit unfortunate that you have an ordinance and maps placed before you and are told to study them here. In New York, we did things in the opposite manner, sounding out the sentiment of the people so that before the ordinance was effective they were actually imploring the commisson to place it in effect as early as possible. This plan that is before you is not final, but the commission should have the co-operation of the citizens in amending the ordinance and finally making it effective. Fourteen cities in the United States have zoning in effect and it has extended to other countries. If you effect zoning in a manner that confiscates, the courts will punch holes in it so that all concerned should work together to prepare a satisfactory ordinance."

"What would be the effect of the zoning ordinance upon the value of property at Fifteenth and Chestnut streets bought for the purpose of erecting unlimited-height buildings," queried Mr. Sinkler, City Architect of Philadelphia.

"If you had but one building of extreme height," Mr. Bassett replied, "it would be able to earn a high return because of the exploitation. But if all the surrounding buildings were erected to the same height, light and air would be taken from them, the rentals would drop and they would not earn a proper return. If you study the problem, you will say that any building more than sixteen stories in height is above the proper economic height.

"However, if the owners insist upon a height limit that would be too high and would only hurt their property, I would say give them what they want. They will soon regret it, and Philadelphia is such a vast city that it is not dependent upon one or two blocks for its development."

At a meeting of the Philadelphia Real Estate Board last week, E. A. Merrill, an attorney of Newark, warned against passing the ordinance without careful study and consideration. The test to be applied to every such ordinance, according to Mr. Merrill, is whether the particular law is necessary for the health, safety, morals or general welfare of the community.

"If applied with common sense and judgment," he said, "zoning will, after the first shock, stabilize values; but it involves a radical extension of the theory of police power, and it may be the wiser course to proceed cautiously in extending further over property and personal rights, a governmental control so easily subject to abuse."

Mr. Merrill does not believe that zoning ordinances in New Jersey towns are all unqualified successes, and in many instances, amount to purely class legislation, and are therefore "dead wrong in principle."

"When ordinances go to such lengths as would keep a doctor from putting a 'conspicious' sign on his house or a man from allowing his newly married son and bride from living in the same house some irascible individuals are going to get hot under the collar and inquire sarcastically if the Declaration of Independence has been repealed," he declared.

* * *

BUILDING contracts awarded in December, in the territory east of the Missouri and north of the Ohio Rivers totaled $198,518,000 in value. In normal times the December total is less than the November total. December, 1921, was 3 per cent. higher than November and it was 98 per cent. greater than December, 1920.

Since July, 1921, the monthly totals on contracts awarded have been, each month higher than the corresponding month of the previous year. In other words the so-called seasonal slump was far from being as general and as intense as in other years.

That ought to make the building industry "sit up and take notice," There will be those who will throw their hats in the air and let out a yell. In the back of their minds will be the thought of big profits; of an active market and keen competition for the builders' service. If they like to look on that sort of a mental picture they may be in for more of the sad experience which caught up with us in the last half of 1919 and the first half of 1920.

Present conditions forecast a substantial quickening of the building business in 1922. The limit of the revival will be fixed in large measure, by the sanity and vision of the material men, contractors and labor. If a majority of these, or if even a considerable minority forgets that unrestrained profit grabbing was an important factor in the determined slump which set in in 1920 and continued with fluctuations until July of 1921, our general building revival will no more than begin before it ends. The greatest danger to a favorable building year now is the possibility of another season of mounting prices.

The building public is wary and suspicious. Any marked increase in the total cost of construction will be qiuckly noted and, having discovered the efficacy

of a buyer's strike, the public will be quick to resort to that weapon in the face of a soaring market.

There is evidence that some prices are too low and with a quickened demand these may be expected to advance. These advances ought to be offset by recessions on such prices as now are too high when compared with the general price level. The average cost of construction, in the interest of the entire industry, ought to be kept pretty close to where it now is and in order to keep it there the merchandising elements in the industry must resist the temptation to advance prices beyond the figure which provides a fair margin of compensation.—*American Contractor.*

* * *

How many persons are engaged in preventing accidents and promoting good health in the construction industry! Although it is known that this industry has made great strides in safety work in the past few years and accomplished great things, there is nothing to show how many men and women have been responsible for this work in the industry as a whole. The National Safety Council is now taking a census which when completed will reveal how many safety workers there are, who they are, and where they are located. This census will include all the persons engaged in safety and industrial health activities in all industries, and those who are doing public safety work as well. The results of the census will show how the construction industry compares with the other industries in respect to the number of persons it has engaged in safety and health work. It will give a good indication of how extensive the safety and health activities of construction companies all over the country are. This is the first time that any attempt has ever been made to list the thousands of people who are now professionally engaged in the safety movement. The census includes not only members and employees of members of the National Safety Council, but all persons engaged in safety and industrial health activities regardless of whether they are connected with the Council in any way or not.

Every reader of this publication who is professionally engaged in industrial or public accident prevention or industrial health work—whether he is devoting all or only part of his time to accident prevention—is urged to assist in the taking of this census by sending to the National Safety Council, 168 North Michigan Avenue, Chicago, his name and the other data requested in the Council's census form which is reproduced on this page.

It is expected that when the job of taking this census is completed there will be registered at the headquarters of the National Safety Council in Chicago the name of every man and woman responsible for the safety work of every industrial plant, public utility, municipality, and every organization which devotes any part of its efforts towards the promotion of either industrial or public safety, in the United States. Up to the present date there has not been in existence any data to show how many persons are engaged in this work either in any single industry or class or in the country as a whole.

Industry in general and the nation at large will profit from the results of this census. It will enable the Council to quickly find speakers on industrial and public safety for any occasion in any locality; authors for special articles on accident prevention; writers of safety textbooks; lecturers on accident prevention and industrial health work for universities and colleges. The Council at present continually receives requests from industrial companies, municipalities, civic associations, clubs, schools, colleges, and other organizations for help in finding speakers or writers on safety subjects. The Census records will greatly increase the facilities of the Council for filling such requests.

Following is the form which all safety workers are requested to fill in and send to the National Safety Council for filling such requests.

Following is the form which all safety workers are requested to fill in and send to the National Safety Council, 168 N. Michigan Ave., Chicago.

Name .....
Company or organization .....
City ..... State .....
Nature of company's business .....
Is safety your principal work .....
Please check other activities you engage in: .....

- Fire protection
- Health and sanitation
- Workmen's compensation and claims
- General executive (such as manager or superintendent
- Engineering (other than safety)
- Legal
- Insurance
- Welfare
- Educational
- Industrial relations

How long have you been in your present position? .....
Technical or other special education? .....
Signed .....
Title .....

We'll *write* your advertising without charge. **All we ask is that you pay for the space and provide our ad. man with the necessary selling pointers.**

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it To be out of sight in the commercial world is to be out of mind.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.

Home building in the forty-three weeks since February 25, 1921, when the tax exemption ordinance went into effect, has increased 413 per cent. over the same period in 1920, Henry Curran, retiring President of the Borough of Manhattan New York and sponsor of the tax measure, reported recently.

In that period plans were filed for new homes for 56,592 families, at an estimated cost of $269,361,284. Of that number 32,413 families will live in one and two family houses, while apartment houses will take care of the remainder. On January 1, 1921, it was estimated there was a shortage of 100,000 apartments.

* * *

INCREASING EFFICIENCY OF CHIMNEYS AND FIREPLACES

The fireplace is the heart of the home —and yet, how many smoky fireplaces there are, driving their disgusted possessors to less picturesque but more efficient ways of keeping warm. The smoking pireplace and the unsatisfactory operation of other heating arrangements are often due to a poorly constructed chimney, the United States Department of Agriculture points out in a new Farmers' Bulletin, No. 1230, Chimneys and Fireplaces, How to Build Them, by A. M. Daniels of the Bureau of Public Roads. The common faults in chimney construction are discussed in detail, and exact directions are given for building chimneys of suitable dimensions and materials. The correct location and size of flues are indicated, and other information is presented in a clear form.

Good draft in the chimney is necessary to efficient operation. Attention is drawn to the fact that a chimney must extend about 2 feet above the ridge of the house if it is to have a good draft. All chimneys should rest on masonry foundations in the ground. The shape and size of the flue is very important. Round flues are to be preferred, but rectangular ones are usual. A table is given, showing the proper relative diameter of the smoke pipe, flue, and the height of the chimney.

The problem of the smoky fireplace is also dwelt upon from the standpoint of fireplace construction. The need for a throat equal in area to the arena of the flue is explained, and emphasis is laid on the importance of a smoke shelf about 8 inches above the throat of the fireplace.

An entirely new application of a simple heating principle in connection with fireplaces was patented by Joseph Parsons, of Lakeville, Conn., and the patent afterwards assigned by him to the United States Government. Instead of supplying the fire with oxygen from the cold air flowing in through cracks around windows and doors, the inventor suggested making the house as air-tight as possible and supplying the necessary oxygen through a special opening in the chimney, placed in such a way that the in-coming air would be warmed by passing over and around the fire. An extension of this idea is the provision of an extra warm-air flue which would carry fireplace heat to a register in the coldest part of the room.

Particulars of constructing an ordinary fireplace properly, and for installing a warm-air flue for improved fireplace heating, are described in the bulletin which is free upon application to the Department of Agriculture.

* * *

SALAMANDERS

MANY different conditions assist or retard building construction in the winter and some of these items are quite often overlooked.

This is true of the insignficant looking salamander which to a person not acquainted with its value has no importance, but after a contractor has invested possibly several hundred thousands of dollars in a very extensive concrete construction undertaking and during a sudden change in the weather has probably lost more over night than he will make in the next few years, he realizes how important it is to make every effort to be reinforced on all sides against losses of this kind. This is where the salamander is really of inestimable value, and when the cost is considered and the work it will do, it seems amazing that every contractor does not have a large supply on hand for use in emergencies. These salamanders while cheaply constructed are very durable. It is not necessary that they be connected with any particular outlet; they will burn almost anything and give out a large radius of heat. Their construction is practically fool proof; anyone can assemble one of these salamanders and keep it going day and night if necessary without any special instruction.

One of the main reasons for the use of the salamander is to have these located between floors where concrete pouring is going on in the winter. After the men have left, these salamanders are fired up for the night and the local watchman can take care of them at stated intervals. The salamander maintains a certain heat throughout the night so that the action of weather will not cause any disaster and in the morning everything is all set for further construction.

Where the work is carried on in three shifts of eight hours each, the salamanders also are used extensively and not only keep the atmosphere at the proper temperature to prevent freezing of material, but also keep the men warm and comfortable, at least as comfortable as is necessary for men who are receiving a certain amount of exercise.

The salamander is of heavy steel construction, cast iron grate with bar iron legs. It will burn coke, coal, wood and scraps of all sorts. It can be set up or taken down in a jiffy. They will nest ten to a bundle and crate, and are equipped with hood over top. Remember that a salamander is a most necessary article to all contractor outfits and remembering that there are several on the market, it is well to select carefully the type you are going to use, and when you order be sure that you will be able to get your requirements at once.—*National Builder.*

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.

The "Builders' Guide" is in its thirty-fifth year of continuous publication.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
1927 Market St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
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BRICK (Face, Common, Paving).
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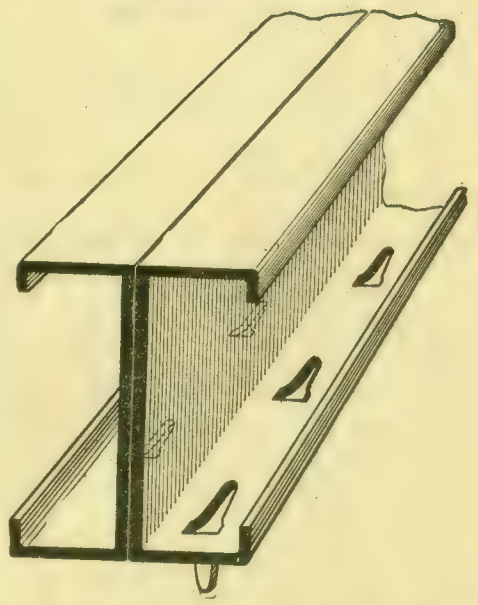
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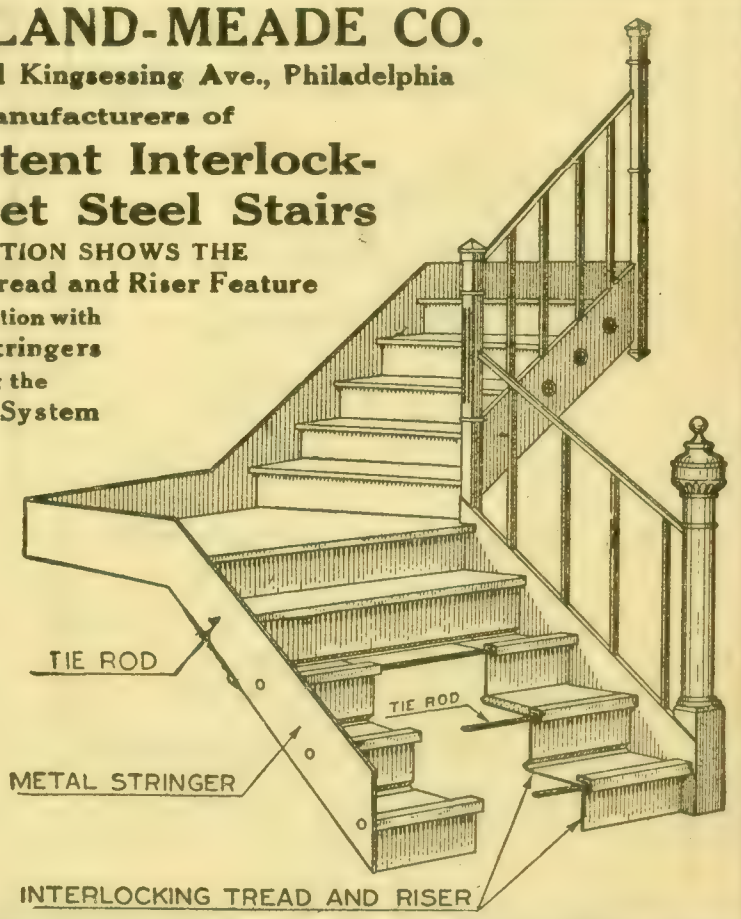
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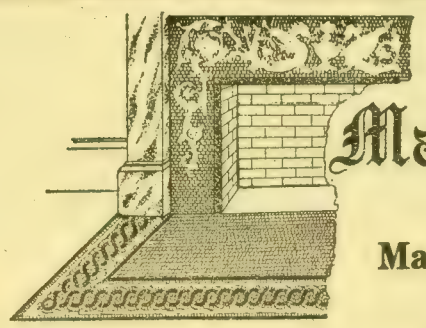
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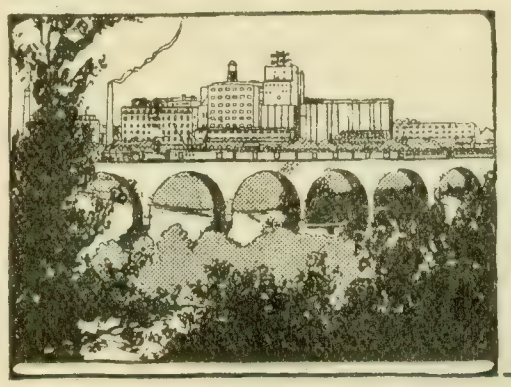
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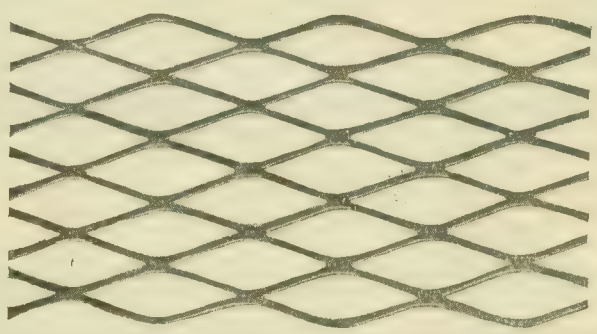
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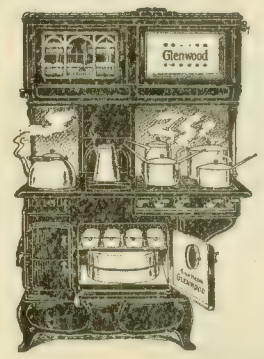
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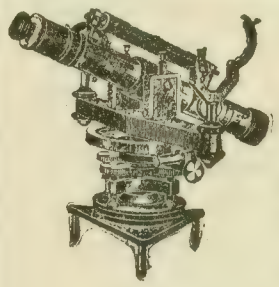
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BUILDERS' GUIDE

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As The Editor Sees It

THE Construction Industry has been looked on in the past as a very practical instrument rather than as a medium for idealism. Not that the possibilities for ideals were not there, but they have not been to any great extent realized and developed. The Associated General Contractors of America, whose organization held its Third Annual Convention in Cleveland, Jan. 17-19, was born with a desire to lift the Building Industry to a higher plane. The Presidential Address by Arthur S. Bent was fraught with the spirit of idealism, and the report made by Gen. R. C. Marshall, Jr., general manager of the Association, showed the great progress made during the past year.

* * *

A DEFINITE assurance that construction recovery is under way and that it is the first phase of a general business revival sums up the results of the construction conference. Evidence of this fact, both statistical and informal, abounded in the discussion of the delegates and in the papers presented as a part of the program.

Col. Leonard P. Ayres, who was chief statistical officer for the A. E. F., and who is now vice president of the Cleveland Trust Company, expressed the belief that prices will continue to fall, intermittently, for ten or twenty years more, but conveyed assurance that the construction industry will be immune to many of the embarrassments of the coming period, because it supplies a market in which there is a latent demand equal to 2¼ years normal production of building.

"In other words," said Col. Ayres, "construction can go along for nine years at 25 per cent. above normal and only fill the normal demand by the end of that time."

Col. Ayres said that building finance problems had commenced to adjust themselves, through greater abundance of money. "The acrimonious discussions between yourselves as contractors and ourselves as bankers are about over," he remarked: Within six months so much money will be for borrowers that owners will be able to arrange building loans on pre-war terms."

Charts shown by Col. Ayres indicated a sub-normal volume of building for every year since 1912. Even the apparent large bulding figures for 1919 and 1920 were only apparent, he declared. The cost was large but the building was far behind even the current needs of the time. The only time in the last nine years when the volume has gone above average requirements was for the last few weeks of October, 1921. This was chiefly residence building, but it shows in Col. Ayres opinion that the tide is rising rapidly. He declared that building prosperity is always the first phase of general revivals and that it disseminates prosperity more widely than any other type of activity.

Determined not merely to predict prosperity, but actually to observe it, the constructors arranged a program in which the theme of waste elimination was constantly emphasized.

J. Park Channing, of Boston, who succeeded Herbert Hoover as chairman of the Federated Engineering Organizations, gave the major paper of the conference on this subject and said that 25 per cent. of the responsbility for waste rests on labor, fifty per cent. on management and the remaining 25 per cent. on outside relationships. In respect to industrial accidents, however, he asserted that 85 per cent. of the responsibility rests on the individual workman.

Constantly changing personnel is a case of waste treated by the speaker and he recommended measures to increase the period of active work so that employment will be more nearly an annual affair. He expressed faith in the method of reasoning with employees rather than ordering them, when labor emergencies are encountered. Material control was treated as a major time saving proposition in the building business.

F. L. Cranford, of New York, former government director of the Muscle Shoals nitrate plant, discussed a 20,000 mile trip taken by officers of the Association in the interest of construction revival. He expressed the opinion that labor has reached pre-war efficiency and that the chief retarding factor is the general be-

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lief that material is too high "particularly materials controlled by national associations that meet behind closed doors."

Cost-plus contracts, fee contracts and efforts made in some projects to eliminate the general contractor were discussed. D. A. Garber, of New York, voiced the belief that few architects and engineers can qualify to direct a building project in the place of the general contractor. Godfrey Edwards, of Los Angeles, decried anything but lump sum contracts, believing that when a builder takes a job on a cost plus or a fee basis, he is paving the way for his own elimination.

The conference acted favorably on the Kenyon bill, to create a reserve fund that will stimulate construction in depressed periods.

Otto T. Mallery, from the department of commerce, urged that ten per cent. of all public construction funds be set aside in such a reserve, each normal appropriation for that year.

Other speakers at the convention were Ernest T. Trigg, of Philadelphia, President of the National Federation of Construction Industries, whose subject was "Co-operation in Construction," and Col. Evan Shelby, New York attorney, who was formerly legal advisor to the construction division of the army, who spoke on "Organization in Construction."

"The opportunity before the construction industry is very great," Mr. Trigg said, "if and when the public's confidence is secured.

"We have passed the stage when the employers and the employes can get together with themselves, and with each other, and determine the affairs of the third party, the public. The public has come back into its power.

"But, until we come to where the public's confidence is restored, construction is not going to revive."

"The obligation rests with the leaders in the construction industry to clean house," Mr. Trigg emphasized. They must, he said, see that the customs of the trade which hold up costs and neutralize the effects of competition, be done away with. They must also, he said, take the initiative in promoting more cordial and economical relations with their workmen.

"You must not take advantage of the fact that now you have the whip hand," Mr. Trigg asserted. "By taking the broad view of things right now, you will bring about a condition of peace in industry where both you and your employes will share in ungrudged prosperity."

Col. Shelby outlined the steps by which the general contractors were organized for the first time during the war, an organization which preceded the one just closing its convention, and pointed to the accomplishments of its short existence as forecasting the progress which will be realized by simplifying the forms of contract, promoting research in industrial methods and improving the relations of the contractors with the material dealers and workers.

* * *

IDEALISM IN CONSTRUCTION

BY ARTHUR S. BENT

President Associated General Contractors of America, At the Third Annual Convention, Cleveland, Jan. 20, 1922

The industry that we represent is not alone very great; it was the only hope of a shattered world lying almost in ruins only yesterday. Men may fight and destroy for a time, they can build forever, and the very continuity of life itself depends upon construction.

In thinking of our A. G. C., I have wondered if sometimes you thought that I was too much of an idealist. It is a profound truth that no institution can continue to exist without genuine moral worth. If that is true, then the measure of our vitality will be our moral worth. If the A. G. C. should ever stand for being served rather than serving, for having rather than being, for getting rather than giving, then it will cease to achieve any success that will be worth our time and effort.

But that has not and never has been the spirit of this organization, and please God it never will be! Victor Hugo tells us that the world lets everything die that is moved by selfishness, and the reason the A. G. C. is such a lusty young giant tonight is because it is inspired with a spirit of unselfish co-operation between ourselves, a desire to serve our public more worthily and a purpose to lift our craft to higher levels of integrity and honor.

There is a very beautiful legend, an impressive one, I think, so old that its origin is lost—I have never been able to discover it. It goes like this: Four men stood up with God when He made the world, and watched with wonder as the shimmering sphere flung from the fingers of Omnipotence found the place in the shining galaxy of stars, and one of the men said, "How was it done?" And God said to him, "Go, find out for yourself." And that man went and became a scientist.

And the second man said, "What is it for?" And to him God said, "Go, find out for yourself." And he went and became a philosopher.

"Give it to me," the third begged. And to him God said, "Go, possess it for yourself." And he went out and became the business man.

The fourth said nothing but fell down and worshipped, and God said to him, "You, too, shall go, and because your

(Continued on page 82)

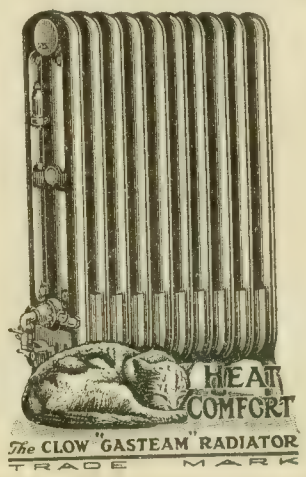


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Power House and Stack (add.), Fifty-fourth and Paschall avenue, $2,800. Architect, private plans. Owners, E. Sutro & Son, on premises. Brick, 1 story, 8x33 feet, slag roof, cement floors. Owners will build.

Library, Nineteenth to Twentieth, Parkway, Philadelphia, $3,000,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Works and Trustees of Free Library, Philadelphia. Owners taking bids due February 21st. Limestone, granite, steel and concrete, 2 stories, 313x212 feet.

Rooming House (alts.), 208 North Franklin street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Harry Potamkin, 37 South Seventh street, Philadelphia. General alterations to lodging house. Architect taking bids. David Sloan, 5242 Germantown avenue, is figurig.

Residence (alts.) and Garage, 1330 North Franklin street, Philadelphia. Architect, Charles E. Schaef, 2203 South Twenty-fourth street, Philadelphia. Owner, Dr. J. B. Chaikin, 1338 North Franklin street, Philadelphia. Brick, 1 story, 18x20 feet, slag roof, cement floors, hot water heat, electric light, tile and marble work, fire doors. Architect and owner taking bids. Sutton & Stephenson, 1317 Washington avenue; Frank & Kaiser, 1522 South Sixth street; Jacob Gorchov, 4116 Girard avenue, are figuring.

Store Building (alts.), 32-36 North Fifty-second street, Philadelphia. Architect, Edmund D. Salter, Parkside and Wynnefield avenues. Owner, M. J. Lenihan, on premises. Steel and iron work, carpentry, mill work, plastering, painting, glazing, hardware, brick work, cut stone (sheet metal work, electric work, heating, plumbing and roofing reserved). Architect taking bids due February 4th. J. E. Kearney, 34 South Seventeenth street, figuring.

Loft Building, 138 North Seventh street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, John P. Smith, 148 North Seventh street, Philadelphia. Brick, cut stone and steel, 2 stories, 15x49 feet, Warren-Ehret roof, maple floors, demolition (heating, lighting and plumbing reserved), tile work, rolled steel sash, Bond, metal bulks, plate glass. Architect taking bids due February 6th at 10.30 A. M. William R. Dougherty, 1610 Sansom street; Conneen Const. Co., 10 South Eighteenth street; A. L. Moorehead, 67 Laurel street; James J. Murphy, 3647 Ludlow street, Philadelphia; J. Myers & Sons Co., Witherspoon Building; Frank Shuler, Norristown, Pa., and J. A. Mahoney, Drexel Hill, Pa., are figuring.

Residences (38), East and West Sides of Marshall, North of Grange street. Architect, private plans. Owner, Walter S. Bauer, 5802 North Fifth street. Brick, 2 stories, 15x38 feet, slag roof, hardwood floors, hot water heat, electric lighting, garages in basements. Owner is taking sub-bids.

Jefferson Central Office Building, Leiper and Foulkrod streets. Architect, J. T. Windrim, Commonwealth Building, Philadelphia, Frankford. Owners, Bell Telephone- Co., Seventeenth and Parkway, Philadelphia. Brick, steel, terra cotta and cut stone, 2 stories and basement, 147x95 feet, slag roof,- concrete floors, metal lath, waterproofing, Bond, hollow metal sash, tile work, plumbing, steam heating, electric lighting, kitchen equipment. Revised plans in progress.

Organ and Alterations, Carpenter and Greene streets, Germantown, $120,000. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owners, Summit Presbyterian Church, on premises. Plans in progress.

Convent, Twenty-fourth and Lehigh avenue, Philadelphia. Architect, Henry D. Dagit Sons & Co., 10 South Eighteenth street, Philadelphia. Owners, St. Columba's Roman Catholic Church, care of Rev. Thomas J. Ryan, premises. Brick, cut stone and steel, 3 stories, 35x120 feet, slate roof, Carey flexible cement roof, oak, maple and composition floors, metal lath, ornamental iron work, floor hardener, tile and marble work, steam heating, electric lighting, dumb waiter. Revised plans in progress. Architects will take new bids in ten days.

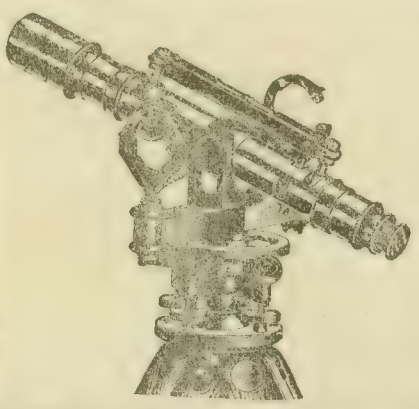
Residence and Garage, Latham Park, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Louis Burk, Third and Girard avenue, Philadelphia. Stone, 2½ stories, 32x87 feet, slate roof, hardwood floors, vapor heat, electric lighting. Plans in progress.

Restaurant (alts.), 246 West Girard avenue, Philadelphia. Architects, Durham Brothers, 1611 Sansom street, Philadelphia. Owners, David Mooshaghian, on premises. Brick, 1 story, 57x18 feet, slag roof, pine floors, electric light, roof ventilators, stairways, plumbing, iron work. Owner is ready for bids.

Plant, Seventh and Sansom streets, Philadelphia. Engineers, F. C. Roberts & Co., Real Estate Trust Building, Philadelphia. Owners, Curtis Publishing Co., Independence Square, Philadelphia. Steel, brick and reinforced concrete, 3 stories, 210x150 feet, slag roof, concrete floors, steam heat, electric light. Plans in progress.

Residence, Cottman and Whitacker streets, Philadelphia. Architect, William H. Wooters, 516 West Allegheny avenue, Philadelphia. Owner, Dr. Asa H. Rogers, 911 West Allegheny avenue, Philadelphia. Frame and stucco, 2½ stories, 23x38 feet, shingle roof, pine and hardwood floors, cement work (heating and lighting reserved), tile work. Owner is ready for bids.

Store and Residence (alts.), Southwest Corner Marshall and Fitzwater streets. Architect, M. Cappobianca, 778 South Seventh street, Philadelphia. Owner, Generosa Di Giacomo, 1433 South Broad street, Philadelphia. Brick and steel, 3 stories, 19x43 feet, slag roof, pine floors, metal lath and ceilings, flush bulks, tile and terrazzo work, hot water heat, electric light, demolition, plate glass. Architect taking bids due as soon as possible. Cerasoli & Scurci, 1709 South Eleventh street; Jo-



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seph Macrame, 1837 Walnut street, Collingdale, Pa.; Tobias Di Renzo, 6717 Lansdowne avenue, and Frank Lucci, 1603 Ellsworth street, are figuring.

Residence (rebuilding), 754-56 South Marshall street, Philadelphia. Architect, M. Cappobianca, 778 South Seventh street, Philadelphia. Owner, Generosa Di Giacomo, 1433 South Bread street, Philadelphia. Demolition, mill work, carpentry, plumbing, slag roof, pine and cement floors, hot water heat, electric light. Architect taking bids due as soon as possible. Cerasoli & Scurci,- 1709 South Eleventh street; Joseph Macrame, 1837 Walnut street, Collingdale, Pa.; Tobias Di Renzo, 6717 Lansdowne avenue, and Frank Lucci, 1603 Ellsworth street, are figuring.

Store (alts.), Broad and South streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, Philadelphia. Owners, United Cigar Co., 23 South Tenth street, Philadelphia. Steel and iron work, carpentry, plastering, plumbing, painting, metal work, tile work (lighting and store fixtures reserved). Owners taking bids due February 3rd. Pierce-Henon Co., Juniper and Pine; J. D. Fisher, 5424 Thompson street, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Filling Station, Sixty-third and Chestnut streets, Philadelphia. Architect, private plans. Owners, Sun Co., Widener Building, Philadelphia. Brick and stucco, 1 story, 13x19 feet, shingle tile roof, cement floor, metal lath, waterproofing, iron work, floor hardener, hot water heat, electric light. Owners taking bids. Barclay White Co., 1713 Sansom street, are figuring.

Residence, Cresheim Valley Road and Stenton avenue, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Dr. Isaac Starr, Jr., Stenton avenue, Philadelphia. Stone, 2 stories, 30x50 feet, slate roof, hot water heating, electric lighting, tile and marble work. Architect taking bids due February 6th at noon. W. John Stevens, Inc., Wyncote, Pa.; James Riley & Son, Forrest avenue, Mt. Airy, Philadelphia; Wolverton & Co., 222 East Willow Grove avenue, and Melvin H. Grebe, 8438 Germantown avenue, are figuring.

Riding Academy (add.), 637 Carpenter Lane, Philadelphia. Architect, Gerald Burns, 5422 Germantown avenue, Philadelphia. Owner, W. B. Thomas, on premises. Brick walls, slag and tile roof, cement floors. Architect taking bids due as soon as possible. David Sloan, 5242 Germantown avenue, and Hearst & Kerbaugh, care of architect, are figuring.

Store (alts. and add.), 215 South street, Philadelphia. Architect, Edw. A. Roth, Drexel Building, Philadelphia. Owner, Max Roth, on premises. Brick, rear add. 1 story, 20x50 feet, slag roof, composition floors, demolition, flush bulks (heating, plumbing, electric work reserved). Architect taking bids. B. & L. Const. Co., 705 Pierce street; M. J. Benamy, 5758 North Fifth street, and Belinsky Brothers, 2630 South Ninth street, are figuring.

Bungalow, Cottman and Lawndale streets, Philadelphia. Architect, E. L. Shoemaker, care of owner. Owner, Charles G. Shoemaker, 429 Belgrade street, Philadelphia. Stucco, 2½ stories. Owner taking bids due as soon as possible. Jacob Gaertner, 7217 Oxford pike, and Frank Mark Cont. Co., Twenty-first and Somerset streets, are figuring.

Factory Building, Rising Sun avenue, between Knorr street and Rockland street. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Ardross Worsted Co., Bridge and Charles streets, Philadelphia. Architects taking bids due February 2nd. Irwin & Leighton, 126 North Twelfth street; Turner Const. Co., 1713 Sansom street; Barclay White Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street; Robert E. Lamb Co., 843 North Nineteenth street; Wark Co., 231 South Broad street; Franklin M. Harris Co., Inc., 1520 Parrish street; Hughes Foulkrod Co., Commonwealth Building, Philadelphia, and McEvoy Const. Co., Newark, N. J., are figuring.

Building (alts.), Northeast Corner Camac and Courtland streets, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Carpentry, mill work, stone work, metal lath, plastering, plate glass, steel work. Architect taking bids due as soon as possible. George E. Gross, 1633 Ranstead street, only bidder.

Residence (alts.) to Store and Residence, 743 South Ninth street. Architect, Michael Cappobianca, 778 South Seventh street. Owner, Frank Morano, on premises. Brick, 3 stories, 18x40 feet, mill work, plumbing, cut stone, plate glass, hot water heat, electric light, tile work. Architect taking bids. Cersoli & Scurci, 1709 South Eleventh street, and M. Cherry, 137 North Tenth street, are figuring.

Underground Comfort Station, MacPherson Square, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, care of Frank H. Caven, 216 City Hall. Brick, 1 story, 40x32 feet, concrete and dirt roof, cement floors, hollow tile, waterproofing, iron and marble work. Lowest bids submitted by Holmesburg Const. Co., Holmesburg, Philadelphia, $13,000; Robbins Cont. Co., 1137 North Front street, $13,321. Plumbing: Daniel J. Keating, 270 South Twentieth street, $1,723; eating, L. J. Sommers & Son, 2436 Brown street, $375; Electric work, J. F. Buchanan Co., 1714 Chestnut street, $576.

Electric Work, Chestnut Street Pier, Philadelphia. Owners, Department of Wharves, Docks and Ferries, Bourse, Philadelphia, care of Director William Sproule. Lowest bids submitted by: Item 1, Enterprise Elect. Co., 239 South Tenth street, $1,745.45. Item 2, Electro Const. Co., Commercial Trust Building, $18,475.

Store and Office Building (alts.), 3644 North Broad street, Philadelphia. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, L. F. Burke, 1422 West Erie avenue. Brick and cut stone front, cement work, asbestos roof, oak, pine and composition floors, carpentry, tile and marble, metal lath, roof ventilators, metal bulks, iron and steel work, painting, plastering. Owners has received bids.

Garage, 1714-18 Market street, Philadelphia. Architect-Engineers, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owner, John Thommen, 1716 Market street, Philadelphia. Brick and steel, 1 story, 176x69 feet, asphalt roof, cement floors, roof ventilators, rolled steel sash, hollow metal skylights, Bond, iron work. Engineers have received bids.

Stores (10), Offices and Apartments, Orthodox and Paul streets. Architect, Edward L. Rothschild, 1420 Chestnut street, Philadelphia.

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Owners, Joseph A. and Edward H. Thompson, 2118 Orthodox street, Philadelphia. Brick, 3 stories, 148x69 feet, slag roof, hardwood and pine floors, steam heat, electric light, tile and marble work, hollow metal sash and skylights, plate glass, store fixtures, metal ceilings, water heaters, plumbing. Architects and owners have received bids.

Store (add. and alts.), 39 North Eleventh street, Philadelphia, $4,000. Architect, private plans. Owner, M. E. Cummiskey, Land Title Building, Philadelphia. Brick, 1 story, 10x13 feet and 18 feet 9 inches x 14 feet, slag roof, yellow pine floors, electric lighting. Owner will build.

Stores and Residences (3) and Residences (11), Frankford avenue and Albright street, and Frankford and Erie avenues, $62,000. Architect, private plans. Owners, Fishman & Fort, 2011 South Fifth street, Philadelphia. Brick, 16x56 feet, and 15½x30½ feet, 13x12 feet, hot water heat, electric light, oak and yellow pine floors, slag roof. Owners will build.

Residences (6) and Garage (1), Duncannon and Sydenham streets, $32,900. Architect, private plans. Owner, Harry C. Weller, 1338 Ruscomb street, Philadelphia. Brick, 2 stories, 16x52 feet and 15x31 feet, 12x9 feet, garage, 1 story, 16x18 feet, hot water heat, electric light, slag roof, oak, yellow pine and cement floors. Owner will build.

Apartment (alts.) 3324 Spring Garden street, Philadelphia, $3,000. Architect, private plans. Owner, James F. Jester, on premises. General interior alterations. Owner will build.

Residences (2), Tyson street, West of Glenlock street, Philadelphia. Architect, J. H. Lackey, 3400 Devereaux street, Philadelphia. Owner, John G. Stevenson, 7014 Hegerman street, Philadelphia. Brick, 2 stories, 19½x52 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (23), 400-434 West Raymond street, (23) 401-435 Raymond street, and (23) 401-433 Annsbury street, Philadelphia, $3,000 each. Architect, private plans. Owner, George Schwinn, Southeast Corner Thirteenth and Landley avenue. Brick, 2 stories, 16 feet 4 inches x 34 feet and 17x45 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Owner will build.

Twin Residence, Sherwood road, Overbrook, Philadelphia. Architect, private plans. Owner, name withheld. Stone and hollow tile, 2½ stories, 50x55 feet, slate roof, oak floors, central steam heating, electric lighting, tile and marble work. Charles C. Pace, Merion, Pa., taking sub-bids.

Residences and Garages, Boudinot, West side, North of Ruscomb (17); **Residences and Garages (18)**, East side Boudinot, North of Ruscomb street; **Residences and Garages (16)**, East side C street, North of Ruscomb street, $4,000; **Stores and Residences (3)**, Northeast Corner C and Ruscomb streets, Northwest Corner Boudinot and Ruscomb streets, and Northeast Corner Boudinot and Ruscomb streets, $5,000. Architect, private plas. Owners, Korman & Dintenfass, 307 Lafayette Building, Philadelphia. Brick, 2 stories, 15½x31 feet, 11x10 feet and 15x50 feet, hot water heat, electric light, cement, oak and yellow pine floors, tile work. Owners will build.

Residences (85), Jackson to Wold, Twenty-first to Twenty-second streets, $254,400. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 14x31½ feet, 7x10 feet, and 16x37½ feet, hot water heat, electric light, oak and yellow pine floors, tile work, slag roof. Owner will build.

Sunday School, Ontario and H streets, Philadelphia. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, Ontario Presbyterian Church, on premises. Brick, and stone, 2 stories, 95x48 feet, slag roof, pine floors, steam heat, electric light, iron work. Architect taking bids due February 9th. E. J. Kreitzburg, 1345 Arch street; F. B. Davi & Sons, Inc., 240 North Sixteenth street; Thos. C. Trafford, 1613 Sansom street, and Geo. Bond, Thirteenth street and Sixty-sixth avenue, Oak Lane, Philadelphia, are figuring.

Ferry Slips, Market street Wharf, Camden and Philadelphia sides. Architect, Wm. H. Cookman, Broad street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad street Station, Philadelphia. Corrugated iron and steel, wood piles, slag roof. Owners taking bids due Feb. 2nd. Brann & Stuart, Commercial Trust Building; Arthur McMullin, Delaware and Snyder Avenues; Armstrong and Latta, Real Estate Trust Building; Parker Sawyer Co., Commercial Trust Building; McLean Const. Co., Chestnut street Pier; Snare Corp., Pier 3, North Wharves, Delaware River; J. H. Terry, Drexel Building, Philadelphia, and H. V. Vaughan, Camden, N. J., are figuring.

Office Building, Frankford avenue and Margaret street. Architects, Lachman and Murphy, Drexel Building, Philadelphia. Owner, Wm. Starr, care of architects. Brick, mill construction, 4 stories, (2) alternates, reinforced concrete, 4 stories, designed to carry 4 additional stories, and structural steel instead of reinforced concrete, 4 stories to carry (4) additional stories. Architect taking bids due Feb. 10th. Thos. C. Trafford, 1613 Sansom street, David A. McClelland Const. Co., Drexel Building, and Rush Bros., 1016 Harrison street, are figuring.

Tunnel, Twenty-first and Oregon Avenue, Philadelphia. Architect, private plans. Owners, U. S. Quartermaster, Intermediate Department, Twenty-first and Oregon ave., Philadelphia. Wood sheathing, 110 feet long, 5 feet wide, concrete floors. Owners taking bids due Feb. 4th. Lam Building Co., 1001 Wood street; W. W. Anstine, Heed Building; Geo. H. Evans, Inc., 109 North Thirteenth street, and J. B. Kelly, 2313 Walnut street, are figuring.

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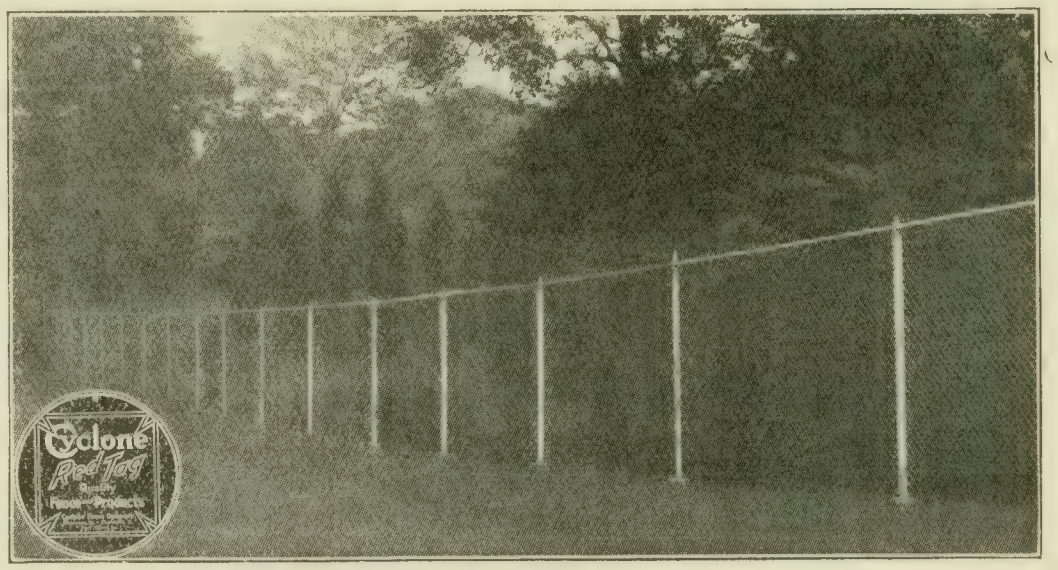
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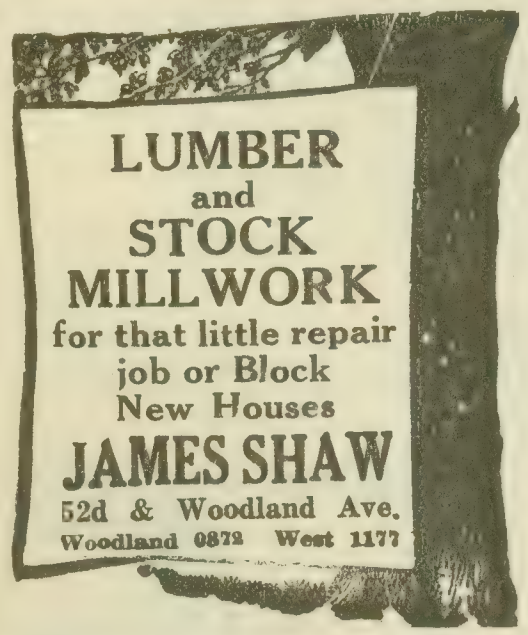
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bath House, Passyunk avenue and Wharton street, Philadelphia. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owners Public Bath Association of Philadelphia, 410 Gaskill street. Brick, cut stone, steel and reinforced concrete, 2 stories, 60x56x36 feet, slag roof, reinforced concrete, composition and linoleum floors, metal lath, water and dampproofing, ornamental iron work and stairs, fire doors, rolled steel sash and skylights, slate, tile and marble work, gas lighting, demolition. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Stores (4), Offices (2) and Apartments (6), Seventeenth and St. James' Place, $13,000. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Irving King, 132 South Fourth street, Philadelphia. Brick, 3 stories, 15x30 feet, slag roof, oak floors, hot water heat, electric light, tile and marble work, metal lath, fire doors. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

Infirmary Building, Byberry Farms, Philadelphia, $191,946. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, care of C. Lincoln Furbush, M. D., Director, 524 City Hall, Philadelphia. Brick and steel, 2 stories, 139x49 feet, 2 wings, 95x31 feet, slate roof, granolithic and linoleum floors, metal lath, window guards and weather strips, waterproofing, terra cotta, iron work, rolled steel sash and skylights, tile, marble and terrazzo. Contract awarded to John B. Kelly, 2313 Walnut street, Philadelphia. Plumbing to Bullman Brothers, Fifth and Cumberland streets, $15,730.

School, Thompson and Madison streets, Philadelphia. Architect, Louis H. Giele, 1123 Broadway, New York City. Owners, St. Adalbert's Church, care of Rev. Monkiewicz, 2645 East Allegheny avenue. Brick, granite and steel, 3 stories and basement, 140x63 feet, slag roof, oak and pine floors, metal lath, terra cotta, iron work, iron stairs, Bond. Contract awarded to Penn Const. & Eng. Co., 3840 Sprig Garden street.

Business Offices, 512-14 Walnut street, Philadelphia, $120,000. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, George Woods Sons Co., 626 Chestnut street, Philadelphia. Brick, cut stone and steel, 4 stories, and 2 stories, 54x119 feet, garage, 2 stories, 59x23 feet, slag roof, cement and maple floors, hollow tile, metal lath, elevators, waterproofing, iron stairs and work, Bond, hollow metal sash, rolled steel skylights, tile and marble work, steam heating, electric light, demolition. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Building (alts.), Broad and Arch streets, Philadelphia, $8,000. Engineer, Paul Essick, 1345 Arch street. Owners, Liberty Title & Trust Co., on premises. Demolition, steel work, heating alterations, electric work, carpentry, mill work, plumbing, plastering, metal lath, mosaic floors, metal ceilings. Contract awardedto F. L. Hoover & Son, 1023 Cherry street.

Residences (3 prs.), Washington Lane and McCallum street, $39,960. Architect, John Keyes, Otis Building, Philadelphia. Owner, Joseph Ross, Wissahickon avenue and Upsal street. Brick, 2½ stories, 32x40 feet, slate roof, hardwood and pine floors, hot water heat, electric lighting, tile work. Contract awarded to Samuel Harting & Son, 20 East Johnson street.

Residence, Fifty-first and Wynnefield avenue, Philadelphia, $15,000. Architect, C. E. Schermerhorn, 431 Walnut street, Philadelphia. Owners, Louis J. Costa, 1615 North Twenty-third street. Hollow tile and stucco, 3 stories, 40x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile

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work. Contract awarded to Mowrer Brothers, Cynwyd, Pa.

Dye House, 1826 Columbia avenue, Philadelphia, $12,000. Architect, private plans. Owner, Adolph Plauschinat, 1824 Columbia avenue. Brick and steel, 3 stories, 16x40 feet, slag roof, concrete floors, waterproofing. Contract awarded to George Kessler Cont. Co., Drexel Building.

Foundations, Shawmont Pumping Station, Philadelphia, $6,800. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, Bureau of Water, 216 City Hall, Philadelphia. Steel and concrete. Contract awarded to Connor & Ley, 3621 North Fifth street, Philadelphia.

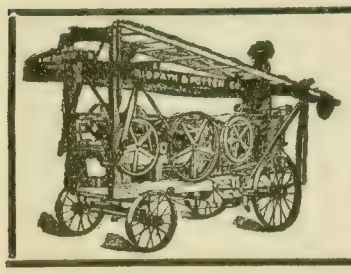
Factory, 5116-18 Wakefield street, Philadelphia, $18,000. Architect, private plans. Owner, George W. Lindley, on premises. Brick, 3 stories, 32x51 feet and 48x51 feet, slag roof, cement floors, steam or hot water heat, electric light. Contract awarded to John H. Frith, 5817 Osiella street, Philadelphia.

Foundry (add.), Northeast Corner Fifteenth and Lehigh avenue, Philadelphia, $33,000. Architect, J. W. Reppenhagen, 308 Park Building, Philadelphia. Owner, The Moore White Co., on premises. Brick, second story add., 164x60 feet, slag roof, white pine floors. Contract awarded to C. W. McDowell, 2118 Diamond street, Philadelphia.

Garage, 3602-04-06-08 Frankford avenue, Philadelphia, $8,000. Architect, private plans. Owner, John J. Sherry, 3612 Frankford avenue, Philadelphia. Brick, 2 stories, 60x75 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to Edward C. Sherry, 1512 North Second street, Philadelphia.

Tenement (add. and alts.), Northwest Corner Fifty-fifth and Baltimore avenue, $5,000. Architect, private plans. Owner, S. Rader, 741 South Fifty-first street, Philadelphia. Brick, 3 stories, 22x10 feet, slag roof, yellow pine floors, electric light. Contract awarded to Weiner & Pepper, 524 Fernon street, Philadelphia.

Residence (add. and alts.), 4612 Baltimore avenue, $3,500. Architect, private plans. Owner, J. Epstein, 1504 South Fifty-third street, Philadelphia. Brick, 1, 2 and 3 stories, 13x17 feet, 15½x17 feet and 14x16 feet, and 15½x6 feet, slag roof, yellow pine floors, electric light. Contract awarded to Weiner & Pepper, 524 Fernon street, Philadelphia.



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Residence (add.), Haines street, East of Boyer street, $7,500. Architect, private plans. Owner, Samuel Emlen, Jr., on premises. Stone, 2 stories, 17 feet 9 inches x 28 feet 4 inches, shsingle roof, hot water heat, electric light, oak and yellow pine floors. Contract awarded to I. A. Dunkelberger, 71 East Herman street, Philadelphia.

Residence and Store (alts. and add.), 2532 Kensington avenue, $3,000. Architect, private plans. Owner, Abe Felix, on premises. Brick, 2 stories, 12x16 feet, slag roof, yellow pine floors. Contract awarded to Birkelbach Co., 4608 Richmond street, Philadelphia.

Business Building (add.), 1101 Columbia avenue, Philadelphia, $5,000. Architect, private plans. Owner, J. McMahon, on premises. Brick, 3 stories, 14 feet 9 inches x 12 feet, slag roof, yellow pine floors. Contract awarded to George E. Hawk, 1628 North Twelfth street, Philadelphia.

Residences (8) Stores and Dwellings (2), 4610-4628 N. 8th street. Architect, private plans. ($44,000) Owner, John W. Mortimer, 3024 E street, Philadelphia. Brick, 2 stories, 15½x32 feet and 12x12 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to John Mortimer, 3377 Emerald street, Philadelphia.

Store and Offices, Southeast corner Dock and Walnut streets, $17,000. Architect, private plans. Owner, Russell Wilson, 116 Dock street, Philadelphia. Brick, steel, 3 stories, 45x60 feet, slag roof, maple floors, steam heat, electric light, metal lath, iron work. Contract awarded to Henry C. Cahl, 231 S. Eighth street, Philadelphia.

Apartments (alts.), 1831 North Twenty-second street, Philadelphia, $2,500. Architect, private plans. Owner, Abe Weil, 36 North Eleventh street, Philadelphia. Carpentry, millwork, painting, glazing, electric work. Contract awarded to J. Harry Rea, 1019 Appletree street, Philadelphia.

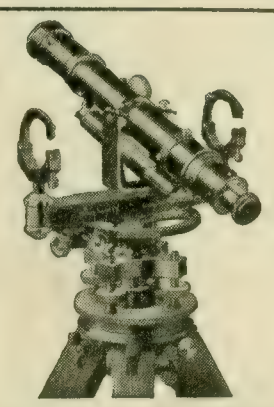
Stores and Apartments, (Alts. and Add.), 1702 Walnut street, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, E. A. Belmont, 254 South Sixteenth street. Brick, cut stone, cement work, slag roof, mineral and oak floors, metal lath, painting, cold water painting, carpentry, waterproofing, steel and ornmental iron work, glazing, tile and marble work, demolition, vapor heating, electric lighting, plumbing. Contract awarded to W. O. Springer, 2004 Naudain st., Philadelphia.

Pennsylvania Construction News

Residence and Garage, Ardmore, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Ralph A. Land, 1513 Walnut street, Philadelphia. Stone, 2½ stories, 45x50 feet, slate roof, oak and maple floors, hot water heat, electric lighting, tile work. Revised plans in progress. Will take new bids in three weeks.

School (add.), Newmanstown, Pa. Archi-

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tect, H. Maurer, 226 North Fifth street, Reading, Pa. Owner, care of architect. Brick, 2 stories, 7 rooms, slag roof, maple floors, hot air or steam heat, electric light, rolled steel skylights, metal lath. Preliminary plans in progress.

Residence, West Reading, Pa. Architect, H. Maurer, 226 North Fifth street, Reading, Pa. Owner, G. H. Rader, care of Reading Abattoir Co., Reading, Pa. Brick, 2½ stories, 30x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Town Hall, Moving Picture Theatre and Fire Station, Richland, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Richland Fire Co., J. A. Fisher, secretary, Richland, Pa. Brick, 2 stories, 50x125 feet, asbestos slate roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath. Plans in progress. Will take bids about April 1st.

Residence (alts.) to Apartment and Store, 222 North Sixth street, Reading. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, J. M. Beaver, 123 North Sixth street, Reading, Pa. Mill work, partition work, general interior work, tile and marble work. Plans in progress.

Church, Emaus, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owner, Rev. D. E. Schaeffer, St. John's Reformed Church, Emaus, Pa. Stone, 1 story and gallery and basement, 42x86 feet, slate roof, maple floors, vapor heat, electric light, rolled steel skylights, roof ventilators, water and dampproofing, ornamental iron work. Owners ready for bids.

School, Bridgeport, Pa. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, Board of Education, Bridgeport, Pa. Preliminary plans in progress. Too early for details.

Bakery (add.), 52 East Market street, York, Pa. Architects, Gimmell & Billmeyer, Rossmiller Building, York, Pa. Owner, Mr. Guthridge, North George street, York, Pa. Brick, general interior work. Plans in progress. Too early for details.

Warehouse (add.), North and George streets, York, Pa. Architects, Gimmell & Billmeyer, Rossmiller Building, York, Pa. Owner, L. M. Hartman, Philadelphia and Duke streets, York, Pa. Brick, 2 stories, 50x130 feet, slag roof, maple floors, electric light, steam heat extension. Plans in progress.

Residence Office and Garage, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, Dr. J. H. Howard, York, Pa. Brick, 3 stories, 25x80 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

Store and Residence, West Market street, West York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, Dr. W. T. Evans, West York, Pa. Brick, 2 stories, 21x60 feet, slate roof, maple floors, electric light, plate glass. Plans in progress.

Residences (4), Highland Farms, Huntingdon Valley, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, name withheld. Stone, brick and rough cast, 2½ stories. Plans in progress. Too early for detail.

Residence, Southwest Corner Owen and Albermarle avenues, Lansodwne, Pa. Architect, Frank V. Nickels, 225 South Sydenham street. Owners, Hugh McCormick, 3954 Pine street, Philadelphia. Hollow tile, stucco and rough texture brick, 2½ stories, slate roof, hardwood floors, stone foundations, hot water heat, electric light, tile work, plumbing, grading. Architect taking bids and sub-bids. John McShain, 1610 North street, is figuring.

Office Building and Bank, Fifth avenue and Oliver street, Pittsburgh, Pa. Associate architects, Trowbridge & Livingston and E. P. Melon, 527 Fifth avenue, New York City. Owners, Mellon National Bank, A. C. Knox, vice-president, on premises. Brick, cut stone and steel, 3 stories, 240x120 feet, Barrett roof, cement, linoleum, cork tile floors, metal lath, elevators, roof ventilators, metal weather strip, waterproofing, iron and bronze work, iron stairs, kalamein doors and sash, tile, terrazzo and marble work, steam heat, electric light, demolition. Owners taking bids due February 4th. Hughes-Foulkrod, Commonwealth Building, Philadelphia, are figuring.

Bank, Oley, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, First National Bank of Oley, J. M. Bertolet, president, Oley. Stone or terra cotta, 1 story and basement, 32x58 feet, John Manville roof, tile and reinforced concrete floors (heating, electric work and plumbing reserved), tile and marble work. Architect taking revised bids due February 3rd. Sharp Const. Co., 22 North Fifth street; Beard Const. Co., 658 Penn street; C. H. Schlegel, 2250 Perkiomen avenue; L. H. Focht & Sons, Baer Building; D. H. Hunter, 820 North Eleventh street, Reading, Pa.; A. Hoffman, Fleetwood, Pa.; Ochs Const. Co., Allentown; J. G. Keen, Oley; Keyser & Co., Pottstown, and George Meinholtz, Reading, Pa., are figuring.

Residence, St. Davids, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, George M. Smith, care of architect. Architect taking bids due February 4th. Milton W. Young, Overbrook, Philadelphia; Millard N. Croll, Rosemont, Pa.; Charles C. Pace, Merion, Pa., and C. C. Edelman, 1627 Sansom street, Philadelphia, are figuring.

Theatre (alts.) to Bank, Store and Apartments, George and Philadelphia streets, York, Pa. Architect, William H. Schwartz, 348 East King street, York, Pa. Owner, J. E. Smith, 116-118 North George street, York, Pa. Brick, general interior work, hardwood floors, electric light, tile work. Plans in progress. Owner will build.

Store, Apartment and Garage, 133 Penn street, Reading, Pa. Architect, H. Maurer, 226 North Fifth street, Reading, Pa. Owner, S. Kaufmann, Penn street, above Second street, Reading, Pa. Brick, 3 and 1 stories, 30x210 feet, slag roof, pine and concrete floors, steam heat, electric light, tile work, metal lath, rolled steel skylights, plate glass. Architect has received bids.

Residences (2), Nos. 38 and 39, Cynwyd, Pa. Architect, Seeburger & Robenold, 1524 Chestnut st., Philadelphia. Owner, name withheld. Frame and stucco, 2½ stories, 39x25 feet, 14x17 feet 8 inches x 16 feet, 39x22 feet, 9x19 feet, slate roof, oak and pine floors, tile work, iron work. Architects have received bids.

Plant (add.), Reading, Pa. Engineers, Lockwood, Greene Co., Boston, Massachusetts. Owners, Joseph Bancroft & Sons, Reading, Pa. Mill building, 3 stories and basement, 411x51 feet, office building add., 2 stories, 36x42 feet, colling pond, 2 stairway towers, picker building add., 3 stories, 104x40 feet, brick and steel, slag roof, maple and cement floors, roof ventilators, water and dampproofing, rolled steel sash and skylights, iron work. Engineers have received bids.

Buildig, Lester, Pa. Architect, private plans. Owners, Lester Piano Co., 1306 Chestnut street. Brick, 3 stories, 144x85 feet, slag roof, maple floors, rolled steel sash, Bond, iro work (heating plumbing, lighting and sprinklers reserved). Owners have received bids.

Bank (alts. and add.), Langhorne, Pa. Architect, Thos. Stephen, Temple Building, Camden, N. J. Owners, Peoples' National Bank, Langhorne, Pa. General alterations (interior) or rear or side addition. Preliminary sketches being drawn. Too early for details.

Garage, Philipsburg, Pa. Architect, Geo. S. Idell, 1703 Chestnut street, Philadelphia. Onwer, H. B. Scott, Philipsburg, Pa. Stone, brick and frame, 2 stories and basement, 40x24 feet, slate roof, concrete and pine floors, steam heat, electric light. Owner is taking bids.

Residences, (operation) New Holland Pike, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, R. R. Slaymaker, care of architect. Work contemplated.

School, Walnut street, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Sacred Heart Roman Catholic Church, Rev. J. M. Steffy, 558 North Walnut street, Lancaster, Pa. Brick, 2 stories. Sketches in progress.

Residence, Mt. Gretna, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Captain W. Hicks, care of Architect. Brick and shingle, 1½ stories. Sketches in progress.

Bank, Enola, Pa. $25,000. Architects, Laurie & Lappey, Second and Locust streets, Harrisburg, Pa. Owners, Enola State Bank, care of Dr. Holmes, Enola, Pa. Brick, 2 stories, 35x70 feet, slag roof, tile floors, vapor heat, electric light, hollow tile, metal lath, roof ventilators, metal window guards, bank fixtures, vault equipment, ornamental iron work. Preliminary plans in progress.

Factory, West East street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Dudley Watch Co., care of Architect. Brick, steel, 2 stories and basement, 40x120 feet, slag roof, pine floors, electric lighting, rolled steel sash, waterproofing. Architect taking bids due Feb. 1st. Herman Wohlsen, Woolworth Building; D. S. Warfel, Woolworth Building; Walter Zook, 311 North Queen street; W. L. Wiant, 5544 Mill street, Lancaster, Pa., and W. S. Ferguson, Paterson, N. J., are figuring.

School, Bitnerville, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Lancaster Township School Board, Kirk Johnson, Lancaster. Brick, 2 stories, 40x93 feet, slag roof, yellow pine floors, hot air heat, electric light, roof ventilators. Owner will take bids this week.

Ice Plant, Seventh and Schuylkill streets, Harrisburg, Pa. Architect, private plans. Owner, United Ice and Coal Co., care of M. Miller, Foster and Dowden streets, Harrisburg, Pa. Brick, 1 story, 60x150 feet, slag roof, cement floors, electric light. Owner will take bids in a few weeks.

Theatre, Lewistown, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, M. Duke and J. Sheveha, Lewistown, Pa. Brick and steel, 1 story, 60x150 feet, composition roof and floors, steam heat, electric light, tile and marble work, hollow tile, metal lath, rolled steel skylights, fire doors, roof ventilators. Owner will sub-let.

Bungalow, Market street, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Mr. Roberts, care of Mr. Taylor, 11th street, Harrisburg, Pa. Brick, 1 story, 28x40 feet, slate roof, pine floors, steam heat, electric light. Owner is subletting.

Residences (2), Bellevue Road, Harrisburg, Pa. Architect, private plans. Owner, A. Brough, 2026 Bellevue Road, Harrisburg, Pa. Brick, 2½ stories, various sizes. Owner will build.

Residences (3), Paxtang, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Daniel Ricker, Paxtang, Pa. Brick, 2 stories, 24x32 feet, asbestos shingle roof, pine floors, steam heat, electric light. Owner will build.

Pennsylvania Contracts Awarded

Church, Front and Windsor streets, Reading, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Windsor Methodist Episcopal Congregation, Rev. H. R. Hoffman, 1090 Windsor street. Stone, 1 story, basement and gallery, 50x70 feet, slate roof, maple and cork tile floors (heating reserved), electric light, metal lath, tile, water and dampproofing, ornamenta iron work. Contract awarded to H. J. Raudenbush, 1324 Perkiomen avenue, Reading, Pa.

Bank (alts.), Sinking Spring, Pa. Architect, H. Maurer, 226 North Fifth street, Reading, Pa. Owners, Sinking Spring Bank, Mr. Weber, president, Sinking Spring, Pa. General alterations, bank fixtures, ornamental iron work, steam heat, electric light. Contract awarded to Adam Spatz, Reading, Pa.

Bank, (alts.), Bellefonte, Pa. Architect, Geo. S. Idell, 1705 Chestnut street, Philadelphia. Owner, Bellefonte National Bank, Bellefonte, Pa. Interior alterations, cork and marble floors, vapor heat, electric light, ornamental iron work. Contract awarded to Bellefonte Lumber Co., Bellefonte, Pa.

New Jersey Construction News

Ferry Houses and Wharves, Lardner's Point and Palmyra, N. J. Engineer, John Miegs, 1211 Walnut street, Philadelphia. Owners Tacony & Palmyra Ferry Co., care of George T. Sale, Liberty Building. Engineers taking bids due February 9th. Pierce-Henon Co., Juniper and Pine streets; Carr & Courtney, Twenty-third and Summer streets; Barclay White Co., 1713 Sansom street; A. R. Raff Cont. Co., 1635 Thompson street; J. S. Rogers Co., Drexel Building; William Linker, 735 Cherry street; E. H. Keefer & Son, 1321 Rodman street, and George W. Shaner & Co., Palmyra, N. J., are figuring.

Church, Pleasantville, N. J., $60,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Pleasantville Presbyterian Church, care of Rev. T. M. Simanton, Pleasantville, N. J. Stone and brick, 1 story, 70x100 feet. Plans in progress.

Residences (10), Atlantic City, N. J. Architect, Bertram Ireland Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick, 2 stories and basement, 33x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence (alts. and add.) and Garage, Ivy Court, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, care of architect. Brick, general alterations, sun parlor, electric lighting, slate roof, concrete floors, garage, 18x20 feet. Plans in progress.

Residence, Trenton, N. J. Architect, Walter Hankin, 241 South Warren street, Trenton, N. J. Owner, name withheld. Frame, 2½ stories, 21x33 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Factory, Newark, N. J. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick and steel, 1 and 2 stories, 200x75 feet, slag roof, pine and mineral floors, metal lath, elevators, iron work, rolled steel doors and sash, demolition (heating, electric work and plumbing reserved). Architect taking bids due February 2nd. Pierce Henon Co., Juniper and Pine streets, and Charles Gilpin Harrison Building, Philadelphia, are figuring.

Store and Apartment, Illinois and Pacific avenues, Atlantic City. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, Y. Dein, 1219 Pacific avenue, Atlantic City, N. J. Brick, steel and cut stone, 3 stories, 94x25 feet, slag roof, oak and pine floors, metal lath, iron work, Bond, hollow metal sash, tile, marble and terrazzo work, steam heat, electric lighting. Architect taking bids due February 2nd. Pierce Henon Co., Juniper and Pine streets, are figuring.

Garage and Apartment, North Michigan avenue, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, Jacob Rimkiefsky, 25 South Texas avenue, Atlantic City. Brick, 2 stories, 149x50 feet, slag roof, composition floors, electric light, rolled steel sash. Owner taking bids due as soon as possible. Samuel Dolinsky, 2 North Vermont avenue, and Nicholas Young, 15 South Ohio avenue, Atlantic City, N. J., are figuring.

Hall, Store and Apartment, Pleasantville, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owners, Junior Order American Mechanics, Clarence Dougherty, secretary, on premises. Brick, 2 stories, 40x120 feet, composition floors, pine and concrete floors, hot water heat, electric light, tile and marble work, roof ventilators, metal ceilings, ornamental iron work. Architect has received bids.

Residence, Tallahassee avenue, Atlantic City, N. J. Architect, Frank A. Berry, 1219 Real Estate Trust Building, Philadelphia. Owner, Jacob Bickar, Atlantic City, N. J. Brick and stucco, 2½ stories, 29x60 feet, tile roof, hot water heat, electric light. Architect has received bids.

Warehouse (alts.), 1007 Atlantic avenue, Atlantic City, N. J. Architect, Seward G. Dobbins, Guarantee Trust Building, Atlantic City. Owner, Max Kauffman, on premises. Architect taking bids due February 4th. Lam Building Co., 1001 Wood street, Philadelphia, is figuring.

Residence (add.), Chelsea, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick, raising floors (7 additional stories), 80x80 feet, slag roof, cement floors, hot water heat, electric light. Architect has received bids.

Residence, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, M. C. Reid, 13 North Hillside aveue, Ventnor, N. J. Frame, 2 stories, 26x42 feet, asphalt roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Store and Apartment, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, English & Somers, on premises. Brick, 2 stories, 40x100 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Apartment 2324 Atlantic avenue, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, Julius Biron, on premises. Brick, 3 stories, 21x85 feet, slag roof, pine floors, hot water heat, electric light, tile work. Owner ready for sub-bids.

Church, Vineland, N. J. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owners, Vineland M. E. Church, Vineland, N. J. Brick and cement block, 1 story, gallery and basement 50x87 feet, steel frame, tin roof, maple floors, metal lath, vapor heat, electric light, tile and marble work, folding partitions. Plans in progress.

Hospital, Vineland, N. J. Architect, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, Vineland Hospital Association, care of T. P. Tuller, Prest. Bldg. Com., Vineland, Judge. Brick, 2 and 3 stories. Working plans in progress. Architects will take bids in two months.

Residence, Haddonfield, N. J. $10,000. Architect, Thos. Stephen, Temple Building, Camden, N. J. Owner, Wm. Buzby, Moorestown, N. J. Frame, 2½ stories, 26x39 feet, slate roof, oak floors, hot air heat, electric light, tile work. Plans in progress. Architect will take bids in three weeks.

New Jersey Contracts Awarded

Residence (alts. and add.), 23 States avenue, Atlantic City. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, L. Josephson, on premises. Brick, stucco, 3 stories, 12x24 feet, slag roof, pine floors, hot water heat, electric light, general interior alterations. Contract awarded to Max Dolinky, 1308 Pacific avenue, Atlantic City, N. J.

Residences (3), Garfield street, Trenton, N. J., $10,500. Architect, private plans. Owner, William H. Leese, 266 Logan street, Trenton, N. J. Frame, 2 stories, 14x28 feet, slate roof, pine floors, hot water heating, electric lighting. Contract awarded to G. & W. H. Leese, 266 Logan street, Trenton, N. J.

Residences (6), Hobart street, Trenton, N. J., $21,000. Architect, private plans. Owner, W. H. Leese, 266 Logan street, Trenton, N. J. Frame, 2 stories, 12x26 feet, slate and tin roof, pine floors, electric lighting. Contract awarded to G. & W. H. Leese, 266 Logan street, Trenton.

Miscellaneous Construction News

Residence, Eighty-ninth and Janifer streets, N. W., Washington, D. C. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owner, Miss Farrell, care of Dr. Crowley, Washington, D. C. Stone and brick, 2½ stories, 29x64 feet, shingle roof, hardwood floors, hot water heat, electric light, tile and marble work. Owner taking bids due Feb. 3rd. Frank L. Wagner, 1418 H street; R. P. Witty Co., Union Trust Building; Wm. P. Lipscomb & Co., District National Bank Building; Arthur L. Smith & Co., Woodward Building, all of Washington, D. C., are figuring.

Fraternity House, Newark, Del. Architect, Day and Klauder, 1416 Chestnut street, Philadelphia. Owner, Sigma Phi Epsilon Fraternity, Delaware College, R. Rodney Sharp, Chm., Bldg. Co., Newark, Del. Brick, 2½ stories and basement, 50x50 feet. Plans about completed. Architects will take bids in three weeks.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 24, 1922. Sealed Proposals will be opened in this office at 3 P. M., February 9, 1922, for furnishing and delivering laundry machinery, all carrier charges paid, to the respective superintendents of construction, U. S. P. H. S. Hospital, Fort Logan H. Roots, Ark.; U. S. P. H. S. Hospital, Ft. Walla Walla, Wash.; U. S. Quarantine Station, Hoffman's Island, N. Y. Specifications may be obtained at this office in the discretion of the supervising architect, Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 72)

soul burns within you, you shall create beauty," and that man went and became the artist.

Now may we not reverently and not unfittingly, add to this noble group of God's journeymen the constructor? We who forerun and always have all the others? We, who have straightened the path for their feet? We, without whom their high destiny could not be wrought out, and by whom all their visions are crystallized? We work and delve for science in its onward march, and harness its magic to ways of usefulness. The bewildering and marvelous structure through which business functions is the work of our hands. Philosophy leans upon us heavily to demonstrate its theories of life and even to art we give its tools and make its dreams of beauty imperishable.

We are the hands through which nearly all of human thought and all material progress are expressed. Through our highways and railways and lighting and heating and temples and schools and homes, we touch all life intimately, and come very close indeed to the heart of humanity, and with that vital and varied contact comes to us an impressive but inspiring responsibility. It is given to us, if we see it rightly to raise the standard of every man's service by the fidelity of our own.

I make no apology for such idealism in an organization like this because whatever our industry is today is the sum total of the thoughts that all the contractors in the world have about it, and it never will rise above that level. And as that level advances to higher planes of integrity and service, we shall travel further and further away from the stigma of sordidness which has clouded our history in the past, and it is given to the A. G. C. to carry that bright banner in the very vanguard.

Of course ethical achievement is not statistical. We can't measure our progress along those lines. Nevertheless, I firmly believe, and you do, too, that it will be our real, our most profitable progress, and the span of our activities is not limited to our own present interests.

We are trying to make contracting a finer thing for those who will come after us. We are consciously sowing seeds which will be harvested by those whom we can never know. Is there any finer thing in life than that?

I will just leave with you that thought, expressed again in a homely little poem called

THE BRIDGE BUILDER

An old man, traveling a lone highway
Came at the evening cold and gray,
To a chasm deep and wide.
The old man crossed in the twilight dim,
For the sullen stream held no fears for him,
But he turned when he reached the other side
And builded a bridge to span the tide.
"Old man," cried a fellow pilgrim near,
"You are wasting your strength with building here
Your journey will end with the ending day
And you never again will pass this way.
You have crossed the chasm deep and wide,
Why build you a bridge at eventide?"
And the builder raised his old gray head,
"Good friend, on the path I have come," he said,
"There followeth after me today
A youth whose feet will pass this way.
This stream, which has been as naught to me,
To that fair-haired boy may a pitfall be.
He, too, must cross in the twilight dim,
Good friend, I am building this bridge for him."

Thank you.

* * *

WASTE IN INDUSTRY

An Address Delivered by J. Parke Channing at the National Convention of the Associated General Contractors, Cleveland, Ohio, January 18, 1922

In assigning the relative responsibility for waste, 50% of this responsibility has been placed at the door of management, and less than 25% at the door of labor. In assessing this responsibility, there has been no purpose or desire to place blame upon any individual, group or class. Waste, like industry itself, is the result of a slow growth, but undoubtedly the greatest opportunity today for correcting it, is in the hands of management. By management is meant all of those engaged in industry from foremen up to the financial heads of the concern. The importance of management has been shown by that terrible experiment conducted in Russia, in which an attempt was made to carry on industry by the workman himself. It has failed miserably and now its protagonists are asking that technical men come into Russia to re-establish its industries.

The causes of waste may be generally classified under the heads of Low Production, Interrupted Production, Restricted Production and Lost Production. Low Production is caused by faulty material control, faulty design control, faulty production control, lack of cost control, lack of research, faulty labor control, ineffective workmanship and faulty sales policies. Interrupted Production is caused by idle men, idle material and idle plants. Restricted Production comes about either by restrictions of the owners of management or by labor. Lost Production is largely due to ill health, physical defects and accidents.

The recent Conference on Employment makes suggestions toward correcting interrupted production due to idle men. Probably of all things this is the most vital. It is unfortunate that in a country like the United States we should have idle men when we have such rich resources and such demands for finished goods. A large portion of this unemployment is due to booms and depressions, and while we do not thoroughly understand the causes of these cycles, we are getting nearer and nearer to the truth, and I believe that we can look forward to a time when the peaks and valleys will be nearly leveled out.

The one thing, to my mind, that stands in the way, is a psychological one, and that is that when we are in a boom period we fail to realize it, imagine conditions are normal and that the real boom is ahead of us. It is only a few far-sighted and sound-thinking men who realize the actual condition. It is incumbent upon owners and managers to study this question thoroughly to see that information is collected and distributed and to properly interpret it.

I believe that proper industrial relations is one of the most important factors in stabilizing industry. Professor John R. Commons, of the University of Wisconsin, has very properly said if all managers and owners treated their men fairly there would be no need of labor unions, but because owners and managers have not followed the Golden Rule, the laborers have been forced to organize for their own protection. I believe that in well stabilized industries where the changes in personnel are at a minimum there is less friction between management and labor. In industries of this class men get to know the management and the management to know their men. Their peculiarities and indvidualities, their capacities for particular kinds of work are realized and the results are generally good.

One reason that there is so much waste in the building industry and so many restrictions on the part of labor is the constantly changing personnel.

Following along this line, you will note that the Committee assesses 25% of preventable waste as against outside contracts; for example, the public. And this means that the public itself must be educated to the necessity of a smooth and regular operation of industry, and must not demand the impossible and must realize that everyone cannot have his wants filled at the same time.

In adopting a program of seasonal construction in different geographic divisions of the country, I, of course, realize that there is a serious problem in attempt-

ing to move labor from one part of the country to the other. A competent mechanic usually has his home in some town and dislikes to move from place to place, but there is a possibility that a certain proportion of the men, particularly those unmarried, may follow this plan.

Among the things which the Committee recommended is proper production control so that material always will be on hand and delivered when needed; that the plant and equipment should be kept continually in working order; that one should have a uniform system of cost accounting and particularly that the methods of wage payment should be equitable and just in pursuing the proper relationship between the efforts put forth and results achieved by all who participate in the enterprise. All of these recommendations seem perfectly obvious but it is astonishing the number of instances in which they are neglected.

Especial attention was called to the fact that wage methods are wholly futile in the absence of standardization and system in the work. In a great many cases, proper production standards and proper control of the work will, without any special wage method, accomplish a large part of the desired result.

Management is also responsible for the prevention of accidents in industry and a "safety first" campaign not only has its humanitarian effect, but results in an actual saving in dollars and cents. This, of course, is recognized in the various workmen's compensation acts in which the cost of death and accidents is directly paid by the industry and becomes one of its charges. The lower this charge, the less will be the cost of production.

Among the responsibilities of labor is that of increasing production. Among the unenlightened, the idea that there is a fixed amount of work to be done in the country, and that the less a man does the longer the work lasts and the more men are employed is of course an economic fallacy, but is held by a great many men. There never was a greater fallacy than this, and I am glad to say that the best minds in labor circles realize its fallaciousness. Still, it must not be forgotten that labor has had many sad experiences in the last eighty years in which the result of increased effort, both mental and physical, has not been rewarded as it should be, but has been entirely appropriated by capital.

The government can give aid in the elimination of waste, and the most important thing is the establishment of a national Industrial Information Service, so as to furnish accurate and timely information on production, consumption and stocks of commodities. In addition, I believe that the government could with propriety establish an Employment Service; perhaps not distinctly under federal control, but at least correlating the employment services of the various States. There seems to be a feeling that this is a legitimate field for the government and one which should not be relegated to private individuals.

There is also the suggestion that the federal government should organize a plan to adjust disputes in general industry, and you will recall as a result of this, in the early part of 1920 the President of the United States called an industrial conference, of which Mr. Herbert Hoover was Vice Chairman. The suggestions of this conference seem sound, but for some reason they have not been followed. Why, I do not know. It should be borne in mind that this conference did not advise compulsory arbitration; in this, I think they were wise, because, if I judge correctly, the results of compulsory arbitration in Australia and New Zealand has not been satisfactory. It is interesting to note, however, in the report of Waste in Industry, that the losses due to strikes and lockouts are nowhere near as great as people have imagined.

Undoubtedly the government can help in the elimination of waste by putting into effect a national policy regarding public health. Many industries look out for the health of their employees, but curiously enough in a great many cases labor is opposed to physical examination of employees. Only a campaign of education will overcome this prejudice. A careful man knows that he should be examined by his physician at least once a year, so that physical defects may be caught in time, and there is no reason, or rather there is every reason why every man in the country, be he a brain-worker or a worker with his hands, should be periodically examined and advised of his condition and the steps that he should take to make himself efficient.

We need industrial standardization and fortunately in this respect the Bureau of Standards of the Department of Commerce, under Mr. Hoover, is doing excellent work. In addition, various engineering societies are working on standardization, and are co-operating with the Bureau of Standards.

There is undoubtedly a deisrability that certain of the federal laws should be revised so as to permit closer co-operation. In coal mining for example stabilization cannot be obtained except through the proper co-operation of the large consumers, the railroad, the operators and labor. Probably, of all the major industries, there is not one so badly organized as that of soft coal mining. It is over-equipped, both as regards plant and personnel, and the soft-coal miner, instead of being able to get 300 days of work as he should, gets, I believe, about 190, and this means that there are altogether too many men ready to mine coal, and that part of them should be diverted to other industries and the balance assured regular and continuous work.

I believe that the one thing the Congress of the United States can do to reduce waste in industry is to modify the anti-trust laws so as to permit consolidations now prohibited. A certain supervision would have to be exercised, permitting a fair return on the investment, adequate allowance to capital and management for the risks taken, but looking out that the natural resources of the country were conserved and the consumer not overcharged.

* * *

BRICKLAYING MAY BE SUCCESSFULLY DONE IN WINTER

BY GEO. W. REPP

THE problems attending bricklaying during the winter may be divided into two classes: first, those that have to do with the comfort of the workmen and, secondly, those that affect construction work itself.

The first group is the most important, as it is a well-known fact that a comfortable workman is more efficient than one who is not. If protected from the wind and cold, the men will work on much colder days, and the increased number of brick they will lay will more than compensate for the cost of their protection.

It is quite general among architects to specify that no brick shall be laid when the temperature is below 20 deg. Fahrenheit, or 12 deg. below freezing point, although brick can successfully be laid at lower temperatures if proper precautions are taken. Large building operations are rarely stopped when the temperature is between 20° and freezing and the methods employed on large work may be easily adapted to smaller jobs. Freezing weather therefor. should not stop brick construction of any kind if the suggestions set down in this article are observed.

Wind Shelter

In the construction of foundation walls the men work from the inside of the excavation and are not affected by the wind. If it is too cold, a few salamanders in the cellar will make things comfortable. As the wall rises above grade, when the wind strikes them, they may be protected from the wind by an easily constructed shelter consisting of a tarpaulin over a framework of 2x4 in. scantlings erected a few feet behind them. Here also will be useful not only salamanders to warm the space between wall and shelter for the men, but to help along the drying and setting of the mortar. If a vessel of water is attached to the side of the salamanders where it will be hot, it will be found a great help in keeping the

trowels warm and clean so that the mortar may be handled more easily.

When the first floor is in place the same tarpaulin shelter can then be moved to the floor of the house along the leeward wall and placed behind the workmen. A completed wall on one side of the building, provided the openings are closed up, will naturally make a fine shelter for the men at work on the other walls.

The use of a tarpaulin shelter is principally for protection from the wind, the worst element with which the men have to contend. On calm days it need not be used. As soon as any floor is in place, the openings of the story below may be temporarily closed and salamanders placed inside to dry out that portion.

Protection of Materials

This much for the protection of the men. As to materials, when the temperature falls below 32 deg., or there is a possibility of it doing so during the night, all materials, including water, should be heated thoroughly before being placed in the wall. If this is done, the mortar will take its initial set before it freezes and no damage result. If the mortar freezes before setting takes place, it loses its strength and results in a weakened wall. Sometimes the mortar freezes just on the surface of the joints, as rapidly as it is placed, so that the joints cannot be struck or otherwise finished. This does not hurt the strength of the wall in any way, and if the mortar thaws out within 24 hours, the joints may then be struck or repointed. It is the freezing of the wall throughout that must be guarded against and this is accomplished by the heating of the materials.

The face bricks should be dry in every cold weather and heated if possible by a salamander or two at the pile, and when carried to the scaffold piled around salamanders to keep them warm for the bricklayers. Common bricks may be heated by a wood fire built over or around the brick pile. Sand may be heated by piling it over a corrugated sheet metal culvert or steel pipe about 20 inches in diameter and about 10 feet long, in the ends of which a wood fire is built. This simple and easy method will melt all frozen lumps in the material. On large work where steam is available, a steam main with several branches open at the ends may be used under the sand in place of the wood and fire and the culvert.

Where city water pressure is available, the water may be heated in a coil attached to the main and large enough to have a fire built in the center, a very simple and efficient method which any plumber can easily install. Place a sheet-iron guard around the coil to conserve the heat. This equipment proves very satisfactory, as it warms the water as fast as it is drawn off through the hose. The entire installation may be found on the market at a comparatively small cost. Without such arrangement the water may be heated in an ordinary iron kettle over a wood fire. Water should never be heated to the boiling point, as too high a temperature will injure the properties of the mortar. A temperature of about 165 deg. or the same as generally required for household uses is best.

Cement-lime mortar is the best for winter work. Lump lime is better because warmer than hydrated lime, but it must be thoroughly slaked and allowed to cool off before using. Never use hot lime freshly and incompletely slaked for the sake of its warmth, as it will continue to slake and disturb the mortar after it has commenced to set, and will decrease or ruin its strength.

Salt is sometimes used, in mixing mortar, to lower the freezing point, but its use should be discouraged. It causes effloresence on the face of the wall when the work dries out and it keeps the mortar damp for a longer period than it would be without it.

For salamanders the best fuel is coke. Wood makes too intense and irregular heat, besides giving off more or less smoke. Coal gives off a gas that is not pleasant, but coke is recommended as the cleanest fire, requires little care, and is almost negigible in cost.

Cares of Walls in Freezing Weather

Regarding the care and construction of walls in freezing weather, it may be said: The footings should never be laid on frozen ground, so that if necessary, the ground should be thawed out by wood fires before placing the footing. It should then be protected from any frost which might work under it, by a banking of fresh manure which should be maintained until the building is closed in. As it is always desirable to backfill the foundation walls as soon as possible, this may be done after the wall has been waterproofed, provided the filling is loose and will pack well. If, however, it is frozen into lumps, it is best to leave the filling until later.

Walls laid in freezing weather should not be carried too high in one day. It is better to work around the entire building, a few feet in height at a time, rather than work on one side and carry the wall six or more feet high. Walls erected by the latter method have been known to get out of plumb from the effect of a freezing temperature on one side and the warmth of the sun on the other.

It is imporant to keep the wall backed up as rapidly as the face brick are laid. If not, the face brick, as in summer work, would be exposed on both sides with the possibility of the mortar freezing before being backed up. The backing when laid would then confine the frost to the middle of the wall. Brick veneer work should not be laid up in very cold weather. In fact, it is not necessary, as it can be placed in the spring without affecting the interior completion of the building.

The walls and scaffolds should be covered every night. The covering for the wall, such as tarpaulins or building paper, should be water tight to keep the top of the wall dry in case of a sudden thaw and rain, and should, of course be such that water cannot run off onto the face of the wall. The scaffolds, if on the outside, should be protected to prevent dirty water splashing or running onto the face of the wall. After a snow storm the snow should be cleaned away at once from all brick surface, sills, scaffolds, etc., so as to prevent water from running into the wall in case of melting.

If the above suggestions are followed, there is no reason why brickwork should not be continued through the average winter months. The extra work accomplished during the usually dull winter season is worth more to the contractor than the trouble he has taken or the additional cost of labor.—*Naional Builder.*

* * *

ESTIMATING COSTS RUNNING TOO HIGH

"Reducing Cost of Estimating" formed the subject of a timely address delivered by J. J. Kelley, President of the National Contractors' Association, at the meeting of Architects, Contractors and Building Trades held last Thursday in the Hotel Longacre.

"The general contractor gets on an average of one job in every thirty on which he furnishes an estimate," said Mr. Kelley. "Estimates are costly. They require time and careful study, for if the estimate is too high, the bidder loses the contract. If it is figured too low, he does not want it. Now, who pays for the loss sustained in estimating the twenty-nine contracts he does not get?

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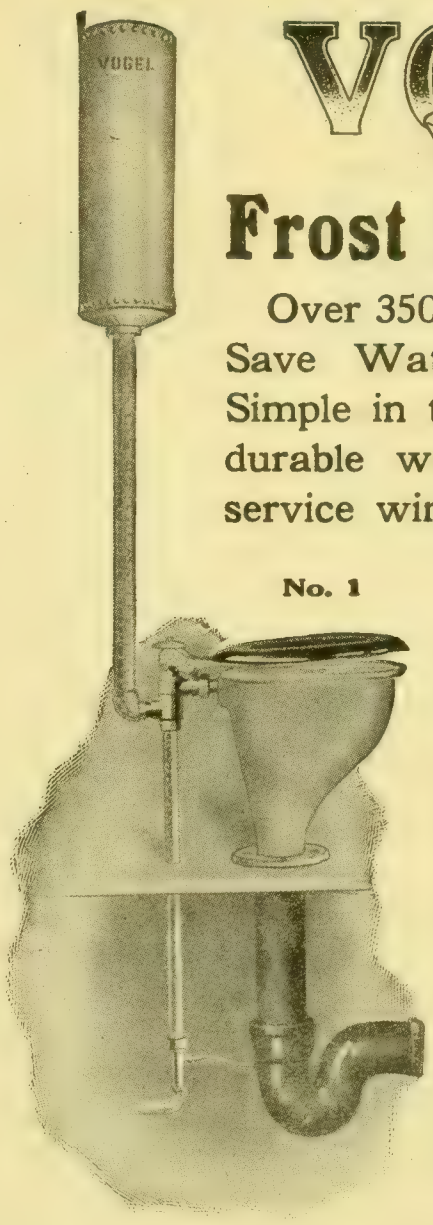
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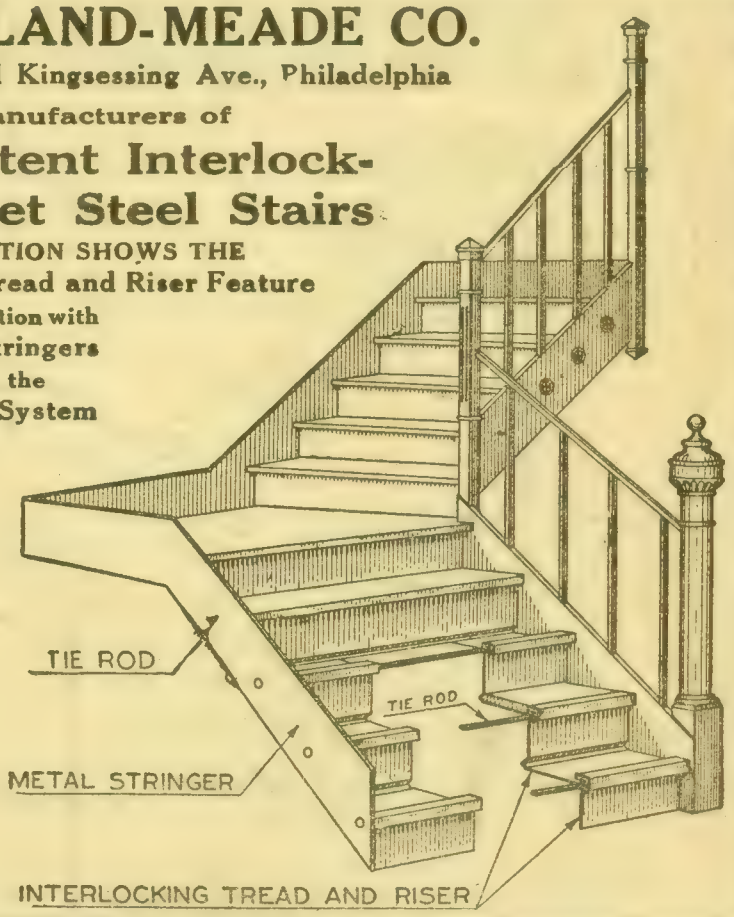
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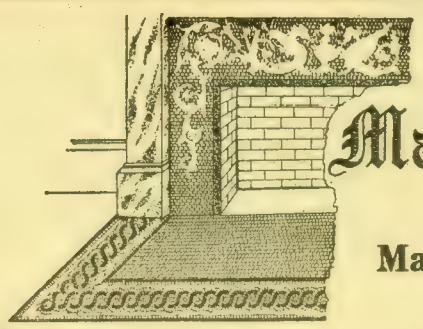


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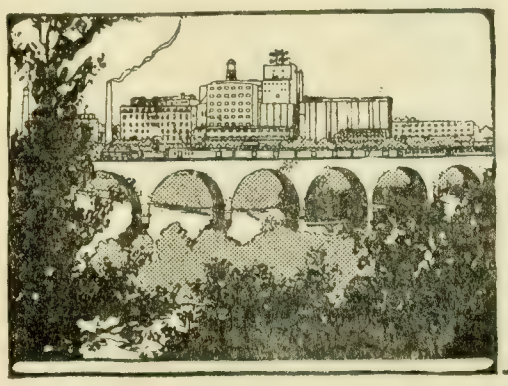
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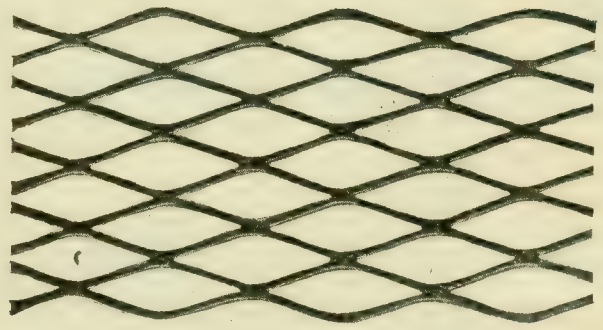
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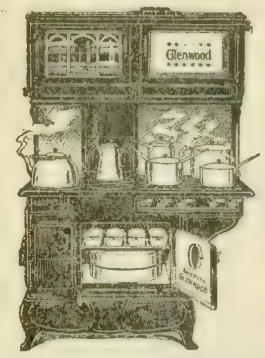
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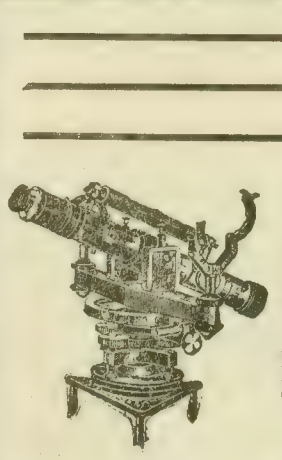
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As The Editor Sees It

THE Philadelphia Zoning bill was rather quickly disposed of by Council last week. The central section, between South and Vine streets, from the Delaware to the Schuylkill rivers was entirely excluded from further consideration.

The remainder of the bill was sent back to the Mayor's Zoning Commission until such time as information can be obtained as to what the people in every district want in the nature of zoning. This follows very closely the suggestion offered to Philadelphia several weeks ago by Mr. Bassett, the New York Zoning expert. In speaking here of New York's experience with zoning, Mr. Bassett expressed surprise that Philadelphia should have drafted a zoning ordinance before finding out the wish of the public. In New York, Mr. Bassett said, mass meetings were held and zoning was a wanted institution before it was inaugurated.

Commission members, apparently surprised at the speed with which the matter has been cast out by Council, confessed they were without immediate plans. Major Edwin E. Hollenback, a member of the commission and representative of the city master builders, said he would propose that Council be asked for an adequate appropriation to enable the commission to carry out the instructions given it. If that appropriation is not forthcoming, other members of the commission indicated that they would drop the matter, as they have been working virtually without funds for the past two years and have not been able to hire halls and hold the kind of meetings that were suggested as a means of obtaining a measure with real popular support.

* * *

THE country stands in need of a standard Building Code, and more particularly of an effective method of enforcement of the Code. The recent disaster in Washington only serves to add another link in the chain of evidence that such a code and its enforcement are of vital import.

General Marshall, of the A. G. C., has sent the following outline for a standard Building Code to Secretary of Commerce Hoover for the consideration of the Committee on Revision of Building Codes, appointed by him. General Marshall is well qualified to draft a building code, having been chief of the Construction Divison of the Army during the War, and in that capacity, coming in touch with the building codes in 47 states.

Outline for Standard Building Code

1. SCOPE. The code should be prefaced by a statement as to its applicability.

(*a*) As to time: It should include all future work and may be in certain respects retroactive.

(*b*) As to character: It should include all permanent buildings, fences and billboards, etc., and not only the finished structures but also during the period of erection.

(*c*) As to extent: Definition should be made as to how much (if any) alteration may be made to any present building or structure without bringing it under the scope of the code.

The main portion of the code falls under three heads—

REQUIREMENTS, giving the information necessary to make the general plans for any specific building.

CONSTRUCTION, giving the information necessary to make the working drawings for all buildings.

ADMINISTRATION, giving the methods by which the code is enforced.

Part 1—*Requirements*

REQUIREMENTS AS TO OCCUPANCY. As practically all buildings are erected for a certain definite character of occupancy, such as residence, theatre, storehouse, factory, etc., the code proper should commence with a statement of its general requirements for buildings of every class, leaving the details thereof to be explained in subsequent sections. In order to avoid confusion, the names used to describe occupany should be defined exactly and exhaustively; for instance, the line of demarcation should be carefully drawn between tenement houses, apartment houses and hotels, between loft

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building, factories and stories, between churches, lecture halls and theatres. Care should be taken to define the status of buildings whose occupancy does not fall in any well-defined category such as bath-houses, jails, railway stations. Provision must be inserted to cover buildings of more than one character of occupancy, such as retail stores with apartment in the upper stories, etc. The requirements as to occupancy fall under the following heads:

(*a*) Location.

Limitations on occupancy may be imposed in the various zones of the city; thus factories may be excluded from certain neighborhoods, and those causing unpleasant odors or noises may be restricted to a zone of their own.

(*b*) Types of Construction.

Different occupants require different types of construction for exterior walls, floor, roofs, partitions and stairs. The usual method of prescribing types of construction in existing building codes is to group buildings as a whole into four or five classes, such as fireproof, ordinary, and frame. For comparatively few classes of occupancy does a building run true to type, so that the general definition for each type of construction is loaded with exceptions. It is therefore suggested that a simpler and more exact mthod is to define four or five types of construction for exterior walls, partitions, interior columns, floors, roofs and stairs separately and to prescribe for each class of occupancy which type shall be used. It should be noted, however, that very frequently more than one type of wall or floor, for instance, may be prescribed for the same building; thus, an occupancy allowing ordinary frame partitions between the rooms may yet require fireproof or fire-resistive partitions around the stairway and elevator shaft. It should also be noted that the type of construction required by the occupancy may be modified by other considerations such as the height or location of the building, as provided in Section 3, b.

(*c*) Allowable loading of floors.

Most codes specify certain loads for which floors or different occupancies are to be designed, these figures to be used for joists, girders or columns. For buildings where the whole floor may be loaded uniformly, this is necessary. However, in residences a row of bookcases and in offices a safe may load heavily one or two beams but there is no likelihood of the whole floor being so loaded. For such occupancies it is therefore recommended that the girders be calculated for a much lighter load than the joists. Allowance should be made for vibration in cases of floors used for dancing, marching or machinery.

(*d*) Safety provisions.

I. Miscellaneous arrangements of plan: such as limitation of area of space between fire-walls, etc., provision for rest rooms for women in factories and the location of workshops and property rooms in theaters.

II. Means of egress: number and size of doors, and when they should open outward; width and slope of aisles in churches and theatres; stairs, their number, width and steepness; fire-escape, their number and location (details of construction to be given later). This section should provide for exits to roof, and from sidewalk vaults and from yards or lightwells.

III. Fire-fighting appliances: such as sprinkler systems, standpipes with hose reels and chemical extinguishers—when required.

(*e*) Light and air.

I. Dark rooms; the uses to which they may be put should be given, both when the rooms are and are not provided with a specified amount of indirect ventilation. (In this connection, the word room should be defined so as to prevent evasion of the code by construction of unauthorized alcoves, etc.)

II. Size of windows: the size of window and the amount thereof to be capable of opening for ventilation should be given for such occupancies as sleeping rooms, workrooms and places of public assembly, preferably in terms of the size of the room. Where indirect ventilation is permitted instead of windows, its amount and character should be given.

III. Cubic capacity: the number of cubic feet required per person in places of public assembly and in workrooms should be given—the latter will vary with different industries. A minimum size should be specified for sleeping rooms.

IV. Size of light shafts: for buildings on interior lots (or portions of corner lots more than a certain distance from the corner) whose rooms require windows, the amount of lot to remain open to the sky above the second story window sills should be stated. This should increase as the height of the building increases.

(*f*) Sanitary provisions.

I. Water supply: when to be furnished and number of wash-basins required. Hot water to be furnished in certain factories.

II. Water-closets: when to be installed and ratio of number required to number of occupants.

III. Use of cellars: how permitted (line must be drawn between cellar and basement.)

3. Requirements Other Than Those From Occupancy: This subject should occupy the next chapter of the code. It divides itself into the following headings:

(*a*) Restrictions on height.

This is usually determined by the zone in which the building is located or by the width of the street on which it fronts. It should be given in feet rather than in stories and should be calculated from the top of curb (average curb if street is on a grade) to top of the front wall. Height of pent houses and roof structures should be governed by a line sloping back from the top of the front wall at a given angle.

(*b*) Restrictions on types of construction.

These may be determined by the zone in which the building in located, or by the exposure (i.e., the width of the street on which it faces or its distance from other buildings) or by the height of the building.

(*c*) Projections over building line.

I. Cornices, string courses, balconies, bay-windows, porticos, marquees, steps and areaways: the projection of steps and

(Continued on Page 98.)



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Residences (204), East Price street, between Ardleigh and Anderson streets. Architect, private plans. Owners, Moss & Taylor, Sixty-fifth and Haddington streets, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hardwood floors, hot water heat, electric lighting, tile work. Owner taking bids on first 100. Will take bids on others at later date.

Residences (173), Rising Sun avenue and Wyoming avenue, Philadelphia. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 14 feet 2 inches x 31 feet 6 inches, slag roof, pine floors, hot water heat, electric lighting. Owner taking subbids.

Residences (218), Second and Wyoming avenue, Philadelphia. Owner, Burton Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 14 feet 2 inches x 31 feet 6 inches, slag roof, pine floors, hot water heat, electric lighting. Owners taking subbids.

Theatre and Office Building, 1825-33 Market street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, A. M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick, steel, cut stone and terra cotta, 3 stories, 180x110 feet, slag roof, cement and pine floors, metal lath, hand elevator, sprinklers, dampproofing, iron work and stairs, bond, hollow metal and kalamein doors, hollow metal skylights, tile, marble and terrazzo work, steam heat, electric light, bronze work. Architects will take revised bids.

Moving Picture Theatre, Fifty-second, Poplar street to Girard avenue. Architect, Ruben Beard, 712 North Franklin street, Philadelphia. Owners, Maxwell Amusement Co., Philadelphia, care of architect. Brick, steel, concrete and architectural terra cotta, 1 story, 288x227 feet, reinforced concrete and slag roof, composition floors, hollow tile, metal lath, steam heating, electric lighting, tile and marble work. Plans in progress. Architect will be ready for bids in three weeks.

Hospital (alts.), 808-10 North Seventh street, Philadelphia. Architects, Clark & Dudnick, Drexel Building, Philadelphia. Owners, Northern Liberties Hospital, Nathan Kushin, premises. Brick, steel and concrete, limestone, gypsum block roof, composition floors, vapor heat, electric light, tile and marble work, metal lath, rolled steel skylights, fire doors, ornamental iron work. Architects taking bids due February 10th. Wittenberg & Chipin, 3 North Nineteenth street; Ketcham & McQuade, 1029 Brown street; Pierce-Henon Co., Juniper and Pine streets; Robbins Cont. Co., 1137 North Front street; A. Sonnenfeld, 717 South Sixty-third street, and A. Shifter, 1839 Godfrey street, are figuring.

Pumping Station, Lower Roxborough, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Water, Frank H. Caven, Directors, 216 City Hall, Philadelphia. Brick, 1 story, 61x33 feet, slag roof, Johns Manville roof, concrete floors, bond. Owners taking bids due February 15th. Kober Const. Co., 34 South Seventeenth street, and Hurley Brothers, Bulletin Building, are figuring.

Supplies and Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, Frank H. Caven, Director, 216 City Hall, Philadelphia. Contracts No. 564, laying 24-inch C. I. water pipe on Parkside and Belmont avenues; 566, furnishing and delivering cement at Queen Lane Filters; 567, Pumping Station Building, at Lower Roxborough Filters; 568, constructing concrete culvert around 30-inch water main; 569, plumbing for Lower Roxborough Pumping Station. Owners taking bids due February 15th at noon.

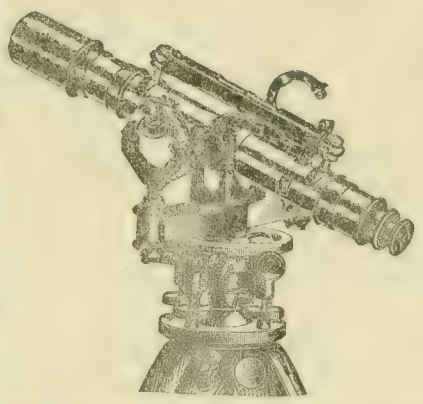
Library, Nineteenth to Twentieth, Parkway, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Frank H. Caven, Director, and Trustees of Free Library, John Ashhurst, Librarian, Thirteenth and Locust streets, Philadelphia. Brick, cut stone and steel, 2 stories, 302x209 feet, slag and promenade tile roof, cement floors, roof ventilators, waterproofing, Bond, metal doors, bronze metal sash, rolled steel skylights. Owners taking bids due February 21st at noon. $100 deposit required. $50.00 refund. F. W. Mark Cont. Co., Commercial Trust Building; Irwin & Leighton, 126 North Twelfth street; Frank G. Stewart, 1619 Sansom street; P. H. Kelly Const. Co., 1713 Sansom street; Sinclair & Grigg, Medical Arts Building; George F. Payne, 401 South Juniper street; M. Melody & Son, 1322 Race street; Philadelphia; Conners Brothers & Co., 15 West Nineteenth street, and John T. Brady & Co., 103 Park avenue, New York City, are figuring.

Supplies, Navy Yard, Philadelphia. Owners, Bureau of Supplies and Accounts, David Potter, Paymaster General of the Navy, Washington, D. C. Lumber, refrigerators. Owners taking bids, due February 14th.

First Deck Offices, Chestnut Street Pier, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, William F. Sproule, Director, Bourse, Philadelphia. Owners taking bids due February 15th at noon.

Parochial School, Fifty-ninth street, North of Master street, Philadelphia. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owners, St. Rose of Lima's Roman Catholic Church, care of Rev. J. M. Bourne, on premises. Stone and steel, 3 stories, 128x62 feet, slate roof, pine floors, steam heat, electric light, plumbing. Architect taking bids due February 16th. William R. Dougherty, 1610 Sansom street; M. Melody & Son, 1322 Race street; McLaughlin & McNally, Eighty-first and Suffolk avenue; Pierce-Henon, Co., Juniper and Pine streets, and Edward Fay & Son, 2 South Mole street, are figuring.

Residence, Oak Lane, Philadelphia. Architect, Edwin A. Yeo, 225 South Sydenham street, Philadelphia. Owners, Alexander C.



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Maurer, 3233 North Fifteenth street, Philadelphia. Stone, 2½ stories, 34x56 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile work. Architect taking bids due February 11th. E. E. Hollenback, Inc., 1804 Brandywine street; Albert Zellfelder, 151 South Broad street; J. Sims Wilson Co., 1125 Brown street; Turnbull & Cornell, 20 South Eighteenth street; Robert Beatty & Brothers, 2321 East Fletcher street; H. H. Wehmeyer, 507 West Cumberland street; J. S. Cornell, Morris Building, Philadelphia, and E. Allen Reeves, Inc., Abington, Pa., are figuring.

Office Building, Eleventh to Quince streets, Philadelphia. Architect, Willis Bosworth, New York City. Engineers, Stone & Webster, Boston, Mass. Owners, Western Union Telegraph Company, Fifteenth and Chestnut streets. Brick, granite, concrete and steel, 4 stories, provisions to be made for 6 additional stories, 140x126 feet, arcade from main building to street, 2 stories, 18x62 feet, slag roof, cement and wood block floors, hollow tile, metal lath, elevator doors, roof ventilators, metal weather strips, dampproofing, iron work, floor hardener, bond, hollow metal doors, rolled steel skylights, hollow metal sash, tile and terrazzo work. Owners taking separate bids on structural steel in main building, demolition, mastic tile floors finish, plumbing, ventilating, electric work, heating and elevators. Engineers taking bids due February 13th. Irwin & Leighton, 126 North Twelfth street; H. E. Baton, 1713 Sansom street; Hughes Foulkrod Co., Commonwealth Building, Philadelphia; John R. Wiggins & Co., Eighteenth and Cherry streets; Turner Const. Co., 1713 Sansom street; J. M. Yardley, 1716 Sansom street; Cramp & Co., Denckla Building; Wark Co., 231 South Broad street, and J. S. Rogers Co., Drexel Building; Barclay White & Co., 1713 Sansom street; Wm. Steele & Sons Co., 1600 Parkway; George A. Fuller Co., 949 Broadway, New York; Nugent Cons. Corp., 21 East Fortieth street, New York, are figuring.

Garage, Graver's Lane, Chestnut Hill, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Harry C. Barclay, on premises. Stone, 2½ stories, 50x32 feet, slate roof, cement floors, hot water heat, electric light. Architects have received bids.

Power Plant (alts., add. and completion), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, Constructing Q. M., Frankford Arsenal, Philadelphia. Brick and steel, 1 story, 16x16 feet, Johns Manville roof, concrete floors, tile work, rolled steel sash, iron work. Owners have received bids.

Show Room and Garage, Broad and Wyoming avenue, Philadelphia. Architect, J. S. Fuller, 1537 Chestnut street. Owners, Fagan & Fagan, 1118 Chestnut street, Philadelphia. Brick and limestone, 1 story, 60x171 feet, slag roof, cement, hardwood and maple floors, steam heat, electric light, marble work, rolled steel sash and skylights, sliding doors. Owners have received bids.

Twin Residences (3 sets), Stanwood street, between Frankford avenue and Erdrick street, Holmesburg, Philadelphia. Architect, private plans. Owner, W. W. Anstine, Heed Building, Philadelphia. Frame and plaster, 2 stories, 14x49 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Owner is taking sub-bids due February 15th.

Textile Plant, Wyoming avenue and Connecting Railroad, North of G street, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Client 880. Reinforced concrete, steel and brick, drying and shipping building, 5 stories, 80x122 feet, whizz room building, 1 story, 55x48 feet, bleach room building, 1 story, 40x40 feet, chemical shed building, 1 story, 33x28 feet, top drying room building, 1 story, 46x74 feet, dye house building, 1 story, 108x74 feet, dye house (A) building, 1 story, 210x73 feet, dye room building, 1 story, 25x31 feet, sample room building, 1 story, 29x31 feet, scour house, 2 stories, 110x52 feet, repair shop, 1 story, 14x30 feet, chemical shed, 1 story, 57x23 feet, stock room, 2 stories, 123x136 feet, garage, 1 story, 80x30 feet, and office building, 2 stories, 46x44 feet, Carey built-up roof, cement and maple floors, metal lath, safety treads, wire window guards, waterproofing, terra cotta, iron work, bond, fire doors, rolled steel sash and skylights, tile and terrazzo work. Architect has received bids.

Apartment Building, Northeast Boulevard, Mascher and Rockland streets. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, Samuel F. Wilmer, 3211 Comly street, Philadelphia. Brick and stone, 3 stories, 140x130x52 feet, slag roof, pine floors, vapor heat, electric light, tile and marble work, plumbing. Owner is taking sub-bids due February 10th.

Residences (15), Fifty-fourth and Diamond streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Martin Molony, 5400 Arlington street, Philadelphia. Stone and brick and stucco, 2 stories, slate, tin and slag roof, hardwood floors, hot water heat, electric light, tile work. Owner is ready for sub-bids.

Residences (4), Rockland street, East of Sixth street, $16,000. Architect, private plans. Owner, Charles P. Troix, 2154 East Chelten avenue, Philadelphia. Brick, 2 stories, 16x35 feet, slag roof, oak and pine floors, hot water heating, electric lighting. Owner will build.

Wagon Shed, 2457 North Eighth street, Philadelphia. Architect, William F. B. Koelle Co., Twenty-sixth and Oxford streets, Philadelphia. Owners, Breyer Ice Cream Co., Eighth and Cumberland streets, Philadelphia. Brick, 1 story, 18x137 feet, slag roof. Architects will build.

Residences (35), $4,500 each, and **Store and Dwelling (1)**, $5,000, Allegheny avenue and Marston street, Philadelphia. Architect, private plans. Owner, Morris L. Miller, 911 North Eighth street, Philadelphia. Brick, 2 stories, 15x28 feet, 10x17 feet and 15x40 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (28), West side Chew street, North of Upsal street, $4,000 each. Architect, private plans. Owner, Elmer B. Hampton, 4713 Oakland street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (10), South side Rockland, West of B street, $3,850 each. Architect, private plans. Owner, Joseph A. Blair, 406 Chew street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

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Factory and Store (add.), 420 Green street, Philadelphia, $4,000. Architect, private plans. Owners, Philadelphia Furniture Co., on premises. Brick, 1 story, 17x37 feet and 33x72 feet, slag roof, maple floors. Owner will build.

Residences (52), 5501-5549 Matthews street and 5500-5552 Matthews street, Philadelphia, $159,000. Architect, private plans. Owner, George H. McCracken, 2528 West Lehigh avenue, Philadelphia. Brick, 2 stories, 16x34 feet and irregular size, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence, west side of Tenth street, north of Medary avenue, $8,000. Architect, private plans. Owner, Gilbert S. Smith, 1715 Chestnut street, Philadelphia. Brick, 2 stories, 32x28 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (16), Store and Residence (1), 1729 to 1759 Barbara street, and northeast corner of Eighteenth and Barbara streets, $41,600. Architect, private plans. Owner, Fred S. Park, Seventeenth and Moyamensing avenue, Philadelphia. Brick, 2 stories, 14x28 feet and 10½x10 feet and 16x38 feet, slag roof, electric work, hot water heat, oak and yellow pine floors. Owner will build.

Residences (21), 1718-58 Stocker street, (25), 1711-59 Stocker street. **Residence and Store (1)**, 1760 and 1761 Stocker street, $126,000. Architect, private plans. Owner, Fred S. Park, Seventeenth and Moyamensing avenue, Philadelphia. Brick, 2 stories, 16x38 feet and 14x28 feet, 10½x10 feet, slag roof, oak and yellow pine floors, electric work, hot water heating. Owner will build.

Residences (6), west side of Fairhill street, south of Rockland street, $5,000. Architect, private plans. Owner, Carl Metz, 315 West Rockland street, Philadelphia. Brick, 2 stories, 15x30 feet and 12x16 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (27), west side of Seventh st., south of Ruscomb street, $922,000. Architect, private plans. Owner, Carl E. Swoboda, 5341 Market street, Philadelphia. Brick, 2 stories, 15x29 feet, 12x10 feet and 15x40 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Office Building, Eleventh to Quince street, on Locust street. Engineers, Stone & Webster, Boston, Mass. Owners, Western Union Telegraph Co., Fifteenth and Chestnut sts. Engineers taking bids, due February 13th. Complete list of bidders: Turner Const. Co., 1713 Sansom street; Wm. Steele & Sons Co., 1600 Parkway; Barclay White Co., 1713 Sansom street; John R. Wiggins Co., Eighteenth and Cherry streets; J. M. Yardley, 1716 Sansom street; Hughes Foulkrod Co., Commonwealth Building; Cramp & Co., Denckla Building; Wark Co., 231 South Broad street; J. S. Rogers Co., Drexel Building; H. E. Baton, 1713 Sansom street; Irwin & Leighton, 126 North Twelfth street, all of Philadelphia; Nugent Const. Co., 21 East Fortieth street; George A. Fuller Co., 949 Broadway, New York City, are figuring.

Garage, 877 North Forty-fifth street, Philadelphia. Engineers, Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia. Owner, Thos. Aiken, care of engineers. Brick and steel, 1 story, 164x30 feet, slag roof, cement floor, steam heat, electric light, rolled steel sash and skylights, iron work. Owner is taking bids. Curtis Grindrod Co., 10 South Eighteenth street, are figuring.

Residences (11), Fisher's avenue and Hutchinson street, Philadelphia. Architect, private plans. Owner, Henry P. Schneider, 3713 Old York Road, Philadelphia. Brick, 2 stories, 15x46 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner is taking sub-bids.

Residences (30), Port Richmond, Philadelphia, (40), Philadelphia. Location withheld. Owner, S. A. Buckman, 1128 Somerville st., Philadelphia. Brick (30), 2 stories, 14x24 feet and (40), 14x32 feet, slag roof, pine floors, hot air and hot water heating, electric lighting. Owner is taking sub-bids on (30). Will take sub-bids on (40) at a later date.

Plumbing Work, 829-31 South Front street, Philadelphia. Owners, Department of Public Health, Room 584, City Hall, C. Lincoln Furbush, M. D., Director. Owners taking bids, due February 20th at noon.

Tunnel, Twenty-first and Oregon avenue, Philadelphia. Owners, U. S. Q. M., Intermediate Department, Twenty-first and Oregon avenue. Wood sheathing, 110 feet, 5 feet wide, concrete floors. Lowest bidder: A. Zellfelder, 151 South Broad street, $640.

Luncheon Service Building, West Philadelphia Station, P. R. R., Philadelphia, $3,600. Owners, Union News Co., 105 Reade street, New York City. Brick, steel, 2 stories, 35x11 feet, slag roof, pine floors, metal lath (heating and electric work reserved). Owners will build.

Club House (alts. and add.), 25 South Van Pelt street, Philadelphia. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owners, Big Brothers Association, on premises. Brick, cut stone and steel, 1 story, 60x26 feet, Warren Ehret roof, concrete floors, waterproofing, iron work, copper skylights, tile and marble work, electric light, vapor heat, demolition. Architect taking bids, due February 11th. John R. Wiggins & Co., Eighteenth and Cherry streets; Barclay White Co., 1713 Sansom street; Frank G. Stewart, 1619 Sansom street, and F. A. Havens Co., 845 North Nineteenth street, are figuring.

Garage, Ridge and Midvale avenues, Philadelphia. Architects, Curtis Grinrod Co., 10 South Eighteenth street, Philadelphia. Owner, George H. Seddon, Thirty-fifth and Sunnyside avenue, Philadelphia. Brick, cut stone and steel, 1 story, 101x84 feet, slag roof, cement floors, rolled steel sash, metal ceilings. Owner taking bids, due February 9th. Edw. Fay & Son, 2 South Mole street; Curtis Grindrod Co., 10 South Eighteenth street; J. B. Kelly, 2313 Walnut street; Clayton Lofland, Water and Race street, and Linda Foley, 1218 Lydeming street, are figuring.

Sales and Serice Building, 5931-35 North Broad street, Philadelphia. Architect, Mahlon H. Dickinson, 6151 Market street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, cut stone and steel, 1 story, 237x40 feet, slag roof, cement and pine floors, metal lath, iron work, rolled steel sash, steam heat, electric light, terra cotta. Architect taking bids, due February 10th. John Schnabel, Inc., Denckla Building; Kober Const. Co., 34 South Seventeenth street; Sutton & Stephenson, 1317 Washington avenue;

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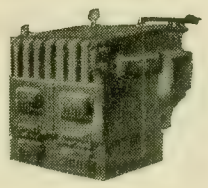
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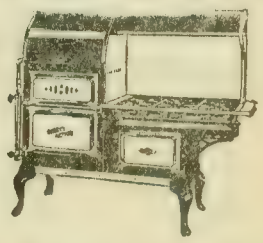
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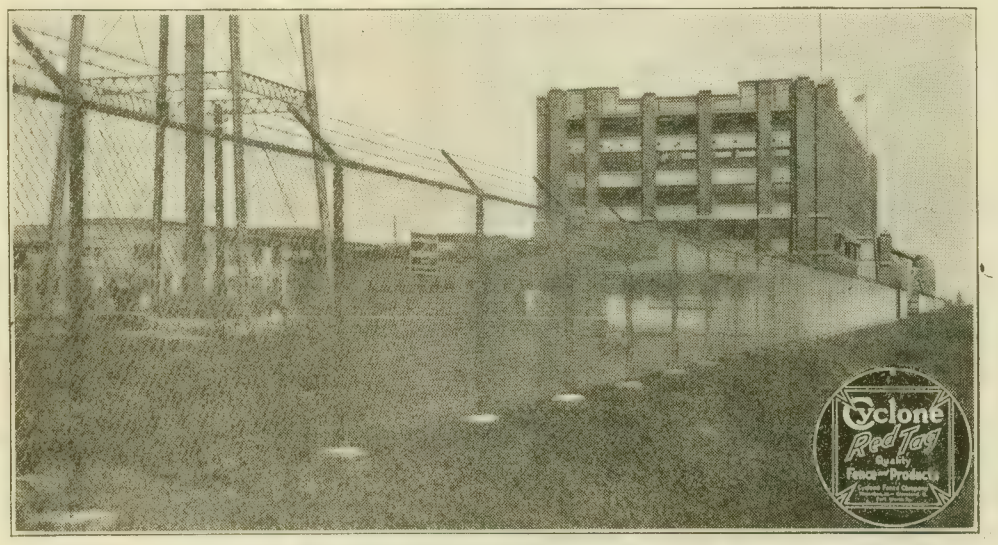
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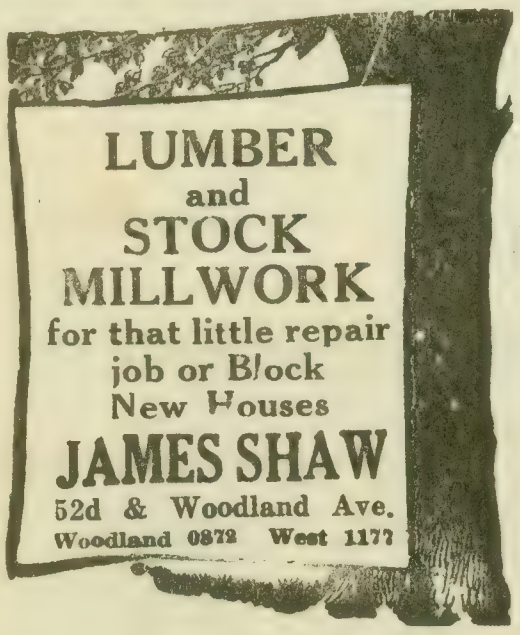
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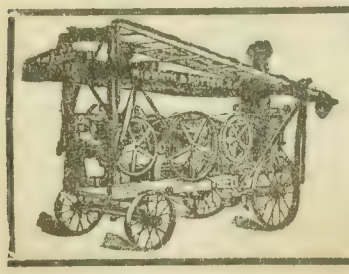
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F. A. Havens Co., 845 North Nineteenth st.; Harry Gill, Jr., 2515 Germantown avenue, and Girard Underpinning and Const. Co., 2930 Diamond street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Rooming House (alts. and add.), 2025 Arch street, Philadelphia, $5,000. Architect, private plans. Owners, Mahood & Co., 1921 Market street, Philadelphia. Brick, 2 stories, 19x56 feet, slag roof, pine floors, metal lath, plastering. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

Rooming House (alts.), 208 North Franklin street, Philadelphia, $2,500. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Harry Potamkin, 37 South enth street, **Philadelphia.** General alterations, carpentry, mill work. Contract awarded to B. Shestack, 5829 Walnut street, Philadelphia.

Theatre, Stores (3), Apartments (4) and Dance Halls (2), South side Woodland avenue, between Sixty-fourth and Sixty-third streets, Philadelphia, $125,000. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owners, Marcus Benn & Stanley Co., 6338 Woodland avenue. Brick, concrete, steel and terra cotta, 3 stories, irregular, 50x87x100x85x157 feet, reinforced Macite roof, reinforced concrete floors, hollow tile, metal lath, roof ventilators, hardwood floors, steam heat, electric light, tile, marble and terrazzo work, fire doors, ornamental iron work. Contract awarded to Pierce Henon Co., Juniper and Pine streets.

Gymnasium, City Line, Overbrook, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owners, Episcopal Academy, on premises. Stone, steel and limestone, 2 stories, 60x120 feet, tile roof, maple and cement floors, metal lath, copper skylights, ornamental iron work, allowance for electric work and hardware. Contract awarded to H. Conway, 5800 Walnut street, Philadelphia.

Store Building, 3926-28 Lancaster avenue, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, George B. Davis, on premises. Brick, 1 story, 94x32 feet, slag roof, maple floors, metal lath, marble and terrazzo work, hollow metal skylights, bond, iron work (heating, electric work reserved). Contract awarded to Bowden Const. Co., 1713 Sansom street, Philadelphia.

Apartments (add. and alts.), 1526 North Eighteenth street, $5,000. Architects, Durham Brothers, 1609 Sansom streets, Philadelphia. Owner, E. J. Elliott, 1112 Chestnut street, Philadelphia. Brick, 1 story, 12½x7 feet, slag roof, yellow pine floors, electric light, plumbing, general interior alterations (6 bathrooms). Contract awarded to Harry J. Evans, 1417 North Warnock street, Philadelphia.

Factory (repairs), Northeast Corner Hancock and Turner streets, $14,000. Architect, private plans. Owners, A. Eichorn & Son, on premises. Carpentry, mill work, painting, plastering, glazing, slag roof, electric light, general fire repairs. Contract awarded to James A. Fitzgerald & Son, 1623 Snyder avenue.

Store (add. and alts.), Northeast Corner Fortieth and Walnut streets, $9,000. Architect, Ralph White, Pennsylvania Building, Philadelphia. Owners, John Barry and Joseph Klixner, on premises. Brick, 1 story, 50x30 feet and 40x14 feet, slag roof, maple floors, hot water heat, electric light, metal lath, copper bulk windows, plate glass. Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

Residence (2 family) and Store (alts. and add.), 1537 Columbia avenue, $6,650. Architect, private plans. Owner, Harry Wolf, 824 Fitzwater street, Philadelphia. Brick, 1 story, 12x12 feet, slag roof, yellow pine floors, elec-

tric light. Contract awarded to Joseph Mairano, 837 Walnut street, Collingdale, Pa.

Store and Show Rooms (add. and alts.), 1208-10-12 North Broad street, $5,000. Architect, private plans. Owners, Lazowick Brothers, on premises. Brick, second story add., 20x20 feet, slag roof, maple floors, electric light. Contract awarded to Myer Shur, 1208 North Broad street, Philadelphia.

Residence and Store (add.), 5312 Market street, Philadelphia, $4,500. Architect, private plans. Owner, Marie Tabibian ,5322 Market street, Philadelphia. Brick, 2 stories, 20x23 feet, slag roof, yellow pine floors. Contract awarded to Davlation & Co., 112 North Sixtieth street, Philadelphia.

Store (alts.), 39 South Fifty-second street, Philadelphia, $4,500. Architect, private plans. Owner, A. E. Greenberg, on premises. Bulk windows, electric light, oak floors, tile work. Contract awarded to Basch & Co., Rhawn and Tackawanna streets.

Garage and Shop, East side Fifty-ninth street, North of Spruce street, $4,000. Architect, private plans. Owner, William Conway, 5800 Walnut street, Philadelphia. Brick, 1 story, 29x19 feet and 19x127 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Herbert Conway, 5800 Walnut street, Philadelphia.

Residence and Store (add.), 1017 Arrott street, Philadelphia, $4,000. Architect, private plans. Owner, John F. Davis, on premises. Brick, 1 and 2 stories, 17x10 feet and 17x53 feet, slag roof, yellow pine floors, carpentry, mill work, plastering, painting, glazing. Contract awarded to F. Oliviere, 1578 Adams street, Philadelphia.

Hall (alts.), Southwest Corner Miller and Lehigh avenue, $3,800. Architect, private plans. Owners, St. Ann's Roman Catholic Church, care of Rev. M. A. Hand, 2328 East Lehigh avenue, Philadelphia. Fire repairs, repairs to slag roof, carpentry, mill work. Contract awarded to Richard J. Diamond, 2834 East Thompson street.

Residence (add.), 6390 Drexel road, Philadelphia, $3,500. Architect, private plans. Owner, Charles Schlorer, on premises. Brick, 1 story add., 12x15 feet, tin and slag roof, electric light, oak and yellow pine floors. Contract awarded to McNeill-Valentine Co., 841 North Broad street.

Building (alts.), 1306 Walnut street, Philadelphia, $3,400. Architect, private plans. Owner, L. Stone & Co., on premises. Bulk windows, plate glass, carpentry, mill work. Contract awarded to William Ariff, 1116 Lincoln Building, Philadelphia.

Garage, North side Noble street, West of Sixty-first street, Philadelphia, $3,000. Architect, private plans. Owner, Howard Gordon, Seventh and Spring Garden streets, Philadelphia. Brick, 1 story, 82x18 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to A. P. Lucker, 5136 Parkside avenue, Philadelphia.

Residence and Store (alts.), Southeast Corner Fifty-seventh and Pine streets, $2,400. Architect, private plans. Owner, H. L. Lecomorvitz, on premises. Bulk windows, carpentry, mill work, plate glass. Contract awarded to Sam Lazarus, 4914 Parkside avenue, Philadelphia.

Residence (add. and alts.), 3120 Montgomery avenue, $2,250. Architect, private plans. Owner, Mr. Faber, on premises. Brick, 1 story, 12x14 feet, slag roof, yellow pine floors. Contract awarded to Max Charlick 3109 Dauphin street, Philadelphia.

Residence and Store (alts.), Southwest Corner Third and Girard avenue, $2,200. Architect, private plans. Owner, Charles Bock, on premises. General interior alterations. Contract awarded to Otto Malz & Son, 2002 North Fourth street, Philadelphia.

Residence and Store (alts.), 751 South Fourth street, Philadelphia, $2,200. Architect, private plans. Owner, L. Myerson, on premises. General interior alterations. Contract awarded to B. Bornstein, 1319 Wingohocking street, Philadelphia.

Residence, Store and Office (add.), 1929 Chestnut street, $2,000. Architect, private plans. Owner, Adolph Dolfman, Northwest Corner Twentieth and Poplar streets, Philadelphia. Brick, 2 stories, 8x12 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Carr & Courtney, Twenty-third and Green streets, Philadelphia.

Residence (add.), 909 North Forty-second street, Philadelphia, $2,200. Architect, private plans. Owner, S. Eskin, on premises. Brick, 3 stories, 16x10 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to I. Gold, 2028 South Fifth street, Philadelphia.

Store and Storage (alts.), 115 Bainbridge street, Philadelphia, $2,200. Architect, private plans. Owner, Mrs. M. McCloskey, 117 Bainbridge street, Philadelphia. General interior alterations. Contract awarded to Edward G. Parvin, 2033 South Bancroft street, Philadelphia.

Warehouse (alts.), No. 209, Frankford Arsenal, Philadelphia, $1,248. Owners, United States Government, Constucting Q. M., Frankford Arsenal, Philadelphia. Metal sheeting. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Ice Cream Factory, 3339-41 Ludlow street, Philadelphia, $20,000. Architect, private plans. Owners, Supplee-Wills-Jones, on premises. Reinforced concrete, 2 stories, 55x100 feet, slag roof, concrete floors, waterproofing, iron work, fire doors. Contract awarded to George Kessler Cont. Co., Drexel Building.

Church, south side Bartram avenue, west of Seventy-eighth street, $3,000. Architect, private plans. Owners, Clearview A. M. E. Church, 7736 Bartram avenue, Philadelphia. Brick, 1 story, 20x48 feet, slag roof, yellow pine floors, electric light. Contract awarded to C. H. Vance, Sharon Hill, Pa.

Store Building (alts.), 1804 Chestnut street, $14,350. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Joseph C. Ferguson, Jr., 10 South Fifteenth street, Philadelphia. Brick and cut stone front, slag roof, terrazzo, pine, oak and composition floors, metal lath, painting, glazing, rolled steel sash and skylights, iron work (heating, electric work and plumbing reserved). Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Garage, 1714-18 Market street, Philadelphia. Engineers, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owner, John Thommon, 1716 Market street, Philadelphia. Brick and steel, 1 story, 176x69 feet, asphalt roof, cement floors, roof ventilator, rolled steel sash, hollow metal skylights, bond, iron work. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Residence and Store (add. and alts.), 2931-33 Kensington avenue, $6,500. Architect, private plans. Owner, Joseph Jackson, 2931 Kensington avenue, Philadelphia. Brick, 1 story, 24x10½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Wm. Carr, 3550 Jasper street, Philadelphia.

Residence (add. and alts.), 845 Almond st., Philadelphia, $2,500. Architect, private plans. Owner, Mrs. Mary Arnold, on premises. Brick, 2 stories, 13x15 feet, slag roof, yellow pine floors, electric light. Contract awarded to B. Silk, 2410 North Stanley street, Philadelphia.

Garage, 149 West Susquehanna avenue (rear), $2,260. Architect, private plans. Owner, Joseph A. Kennedy, on premises. Brick, 2 stories, 22x20 feet, slag roof, cement floors. Contract awarded to Farrell-Roth Const. Co., 122 Diamond street.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 30, 1922. Sealed Proposals will be received at this office until 3 P. M., February 23, 1922, and then opened, for Counters, Screen, etc., in the United States Post Office and Court House, Birmingham, Alabama, in accordance with the specification, and drawing mentioned therein, copies of which may be had at this office or at the office of the Custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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PENNSYLVANIA Construction News

Residence, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, William Morris, Ardmore, Pa. Frame, 2½ stories, 28x27 feet, shingle roof, electric lighting. Architect taking bids due February 16th. Stewart Hutchison, Ardmore, Pa., and Halzerson & Janssen, 515 Kathmer road, Brookline, Pa., are figuring.

Residence, Taylor, Pa. Architects, Morris & McHale, Burr Building, Scranton, Pa. Owner, J. A. Powell, Taylor, Pa. Frame and stucco, 2 stories, 32x36 feet, tile roof hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Residence (alts. and add.) to Apartment, Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, name withheld. Frame, 2 stories, 2 rooms additional, slate roof, pine floors, electric light, plumbing, partitions. Plans in progress.

Store Building (alts.), Scranton, Pa. Architect, T. T. Brown, Real Estate Trust Building, Scranton. Owner, H. C. Kennedy, Market street, Harrisburg, Pa. Partitions, hardwood floors, electric light, plate glass, copper work, metal ceilings. Plans in progress.

Bank and Office (alts. and add.), Stroudsburg, Pa. Architects, C. H. Davis and G. Lewis, Union Bank Building, Scranton. Owners, Stroudsburg National Bank, care of architect. Stone, 2 stories, 40x150 feet, slag roof, marble floors, hollow tile, electric light, tile, marble and terrazzo work, hollow metal skylights, roof ventilators, bank fixtures, water and dampproofing, ornamental iron work. Plans in progress.

Store and Building, Adams and Spruce streets, Scranton, Pa. Architects, C. H. Davis and M. D. Lewis, Union Bank Building, Scranton, Pa. Owners, Stoeter & Fisher, 121 North Washington avenue, Scranton, Pa. Terra cotta, steel, reinforced concrete, 6 stories, 88x155 feet, concrete roof, reinforced concrete floors, hollow tile, metal lath, electric light, (2) elevators, (1) freight elevator, fire doors, iron stairs, water and dampproofing, ornamental iron work. Plans in progress. Architect will take bids March 1st.

Bank, Danville, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, First National Bank, Danville, Pa. Brick, limestone, 1 story, 40x85 feet, slag roof, marble floors, hollow tile, electric light. Owners taking bids due February 18th. Amster Const. Co., 705 East One Hundred and Thirty-third st., New York; Shepherd Const. Co., Miners' Bank Bldg., Wilkes-Barre, Pa.; Albert Boyer, Northumberland, Pa.; Shamokin Lumber & Const. Co., Shamokin, Pa.; H. A. Moore Co., Milton, Pa.; John Curtis, 1 Hickory street, Wilkes-Barre, Pa.;- Wells-Egelhof Co., 101 Park avenue, New York, figuring.

Store Front (alts.), Public Square, Wilkes-Barre, Pa. Architects, Schroeder & Schmitt, Weitzenkorn Building, Wilkes-Barre. Owners, Eugene Jacobs, Wilkes-Barre, Pa. Plate glass, general interior alterations. Plans in progress.

Store and Residence (2), Fort Griffin, Pa. Architects, Schroeder & Schmitt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame, 2 stories, 36x60 feet, shingle roof, pine floors, steam heat, electric light. Plans in progress.

Stores (alts.), 48 North Main street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Belmont Stores Co., care of architect. Plate glass, marble floors, electric light, tile work, general alterations, metal ceilings. Plans in progress.

Garage and Sales Rooms, Hill Side, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Steel, fireproof, 3 stories, 34x150 feet, slag roof, concrete floors, steam heat, electric light, metal lath. Architect ready for bids.

Stores and Apartments, Nanticoke, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Hollow tile, stucco, steel, 2 stories, 75x113 feet, slag roof, hardwood floors, vapor heat, electric light, tile work, metal lath. Plans in progress.

Store and Office, Adams street, Scranton, Pa. Architects, C. H. Davis & G. Lewis, Union Bank Building, Scranton, Pa. Owner, Walter Rehrif, care of architects. Brick, stone, reinforced concrete, 3 stories, 41x140 feet, slag roof, concrete and hardwood floors, electric light, tile work, metal lath, copper work, rolled steel skylights. Architect taking bids on steel work. Will take general bids in one week.

Bank (alts. and add.), Honesdale, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, Dime Bank of Homesdale, Pa., Mr. Wright, cashier. Limestone, brick, 1 story, 50x65 feet, tin roof, marble floors, electric light, marble work, metal lath, metal window guards, bank fixtures, interior alterations. Architect ready for bids.

Residence, Scranton, Pa. Architect, A. I. Prandzik, Scranton Life Building, Scranton, Pa. Owner, John Telleyeh, 1100 Prospect avenue, Scranton, Pa. Frame and stucco, 2½ stories, 28x34 feet, slag roof, hardwood floors, electric light, steam heat, tile work. Owner taking bids.

School, West Mountain, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, Tinnath-Serah Bible School, West Mountain, Pa. Stone, 3 stories and basement, 36x170 feet and 37x36 feet, slag roof, pine floors, steam heat, electric light, metal lath, iron stairs. Owner ready for bids.

Garage, Scranton, Pa. Architects, Russoniello & Price, Scranton Life Building, Scranton. Owners, Thomson & Roberts, Scranton, Pa. Hollow tile, 1 story, 80x160 feet, concrete floors, electric light, metal lath, rolled steel sash and skylights, roof ventilators. Architect taking bids due February 16th. Lackawanna Cont. Co., Real Estate Exchange; P. H. Heimes, 225 Miller street, Miller Building; Hagen Lumber Co., Hickory and Mattes streets, and Peck Cont. Co., all of Scranton, Pa., are figuring.

School, Mocanaqua, Pa. Architect, R. A. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Conynghan School District, J. Hughes, Mocanaqua, Pa. Brick, 2 stories. Sketches in progress.

Stores (alts.), Washington and South streets, Wilkes-Barre. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Cohen & Fein, 201 South Washington street, Wilkes-Barre. Copper work, steam heat, pine floors, tile work, rolled steel skylights, metal ceilings. Plans in progress.

Apartment and Store, Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Patrick O'Donnell, East Market street, Wilkes-Barre, Pa. Brick, 3 stories, 25x75 feet, slag roof, pine floors, steam heat, electric light, tile and marble work metal lath, rolled steel skylights. Plans in progress.

Residence, location withheld, $25,000. Architect, T. Atherton, Coal Exchange Building, Wilkes-Barre, Pa. Owner, name withheld. Stucco, hollow tile, 2 stories, 60x30 feet, hardwood floors, vacuum heating, electric lighting, tile work. Plans in progress.

Office (alts. and add.), County Court House, Wilkes-Barre. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Leizein Co., care of architect. Oak floors, bronze work. Architect will take bids next week.

Store and Dance Hall, Luzerne, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, C. Spiegel, Luzerne, Pa. Brick, steel, 2 stories, 40x80 feet, corrugated roof, hardwood floors, electric light, plate glass. Owner taking bids due February 7th. W. Richards and O. J. Behrens, Wilkes-Barre, and Builder Rozelle, Kingston, Pa., are figuring.

Store and Warehouse, South Penn avenue, Wilkes-Barre, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owners, Eastern Penn Supp. Co., Wilkes-Barre, Pa. Brick, fireproof, 6 stories, 52x185 feet. Architect taking bids due February 16th. Turner Const. Co., 1713 Sansom street, Philadelphia; J. W. Ferguson, 253 Broadway, New York; R. S. & C. F. Stewart, Easton, Pa.; John Hammes, J. Curtis & Co. and M. L. Roth, Wilkes-Barre, Pa.. are figuring.

Theatres, Stores, Offices and Apartments, Mt. Carmel, Pa., $200,000. Architect, William H. Lee, 32 South. Seventeenth street, Philadelphia. Owners, Chamberlain Amusement Co., Shamokin, Pa. Brick, steel, concrete and terra cotta, 3 stories, 100x150 feet, built-up roof, cement floors, hollow tile, metal lath, steam heating, electric lighting, tile and marble work, fire doors, ornamental iron work. Plans completed. Architects will take bids in two weeks.

High School, Wayne, Pa. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, School Board of Wayne, care of Dr. Joseph C. Egbert, secretary, Wayne, Pa. Concrete piling, brick and limestone, 3 stories, 130x70 feet (15 rooms), composition roof, reinforced concrete floors, mill work, steam heat, electric light, marble and slate work. Owners will be ready for bids in about three weeks.

Apartment House, Allentown, Pa. Architect, J. H. Cassone, 506 Hamilton street, Allentown, Pa. Owner, William Cassone, Allentown, Pa. Semi- or fireproof, 3 or 4 stories, 75x120 feet, Barrett specification roof, hardwood and yellow pine floors, vapor heat, electric light, tile and marble work, metal lath, elevators, ornamental iron work. Plans in progress.

School, Bridgeport, Pa. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, Board of Education, Bridgeport, Pa. Preliminary sketches being drawn. Too early for details.

Store (alts.), 807 Hamilton street, Allentown, Pa. Architect, D. Levy, 938 Hamilton street, Allentown, Pa. Owner, Charles Kline, on premises. Steel, 2 stories, 20x110 feet, slag roof, concrete and wood floors, electric lighting, tile and marble work, elevators. Architect ready for bids.

Residences (6), Wynnefield, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. Kaplan, 6001 Pine street, Philadelphia. Stone and brick, 3 stories, 24x47 feet, slate and slag roof, hardwood floors, hot water heat, electric light, tile work.

Garages in rear. Owner will be ready for bids in a few days.

Store (alts.), Eighth and Hamilton streets, Allentown, Pa. Architect, D. Levy, 938 Hamilton street, Allentown, Pa. Owners, Belmont Stores, Inc., care of architect. Steel, 4 stories, 20x110 feet, steam heat, electric light, tile and marble work, terra cotta work. Architect taking sub-bids.

Apartment and Store, Sixth and Hamilton streets, Allentown, Pa. Architect, Joseph H. Cassone, 506 Hamilton street, Allentown, Pa. Owner, James Cassone, 203 North Sixth street, Allentown, Pa. Brick, semi-fireproof, 3 stories, 22x90 feet, Barrett specification roof, hardwood and yellow pine floors, hot water heat, electric light, tile and marble work, roof ventilators, bank fixtures. Owner taking sub-bids.

Residence, Weissport, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Bowman Silk Co., Weissport, Pa. Brick, 2 stories, 25x40 feet (heating reserved), built-up roof, oak floors, tile work. Owner taking bids due February 20th. L. M. Kratz & Sons, 1803 Liberty street; Peters & Marshall, 532½ North Fifteenth street, Allentown, Pa., and Quentin & Lesher, Weissport, Pa., are figuring.

Store, Apartment and Residence, Monacacy and Fairview streets, Bethlehem, Pa. Architect, H. J. Weigher, Bethlehem Trust Building, Bethlehem, Pa. Owner, F. Stoneback, 217 West Fairview avenue, Bethlehem, Pa. Brick, 2 stories, 43x69 feet, slate roof, pine floors, hot water heat, electric light, tile work, plate glass, store fixtures. Owner taking preliminary bids from William F. Stoneback, 51 West Ettwein street, Bethlehem, Pa.

Residence, Chestnut Hill, Pa. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owners, Mrs. James B. Howe and Mrs. Joseph C. Fraley, care of architects. Brick and plaster, 2½ stories, 64x26 feet, wing, 20x24 feet, shingle roof, oak and pine floors, metal lath, iron work, bond, terrazzo work. Architects taking bids due February 15th. R. C. Ballinger Co., 925 Walnut street; H. H. Burrell, 206 South Quince street; Frank G. English, 1610 North Carlisle street; E. E. Ludwick, 1619 Chestnut street; Charles Gilpin, Harrison Building, and J. Sims Wilson Co., 1125 Brown street, are figuring.

Y. M. C. A. Building, Williamsport, Pa. Architects, Thomas, Martin & Kirkpatrick, 130 S. Fifteenth street, Philadelphia. Owners, Y. M. C. A., care of Mr. Brown, Williamsport, Pa. Brick, concrete, steel and stone. Owners taking bids due March 1st at 9.30 A. M. J. V. Bennett & Son, W. M. Sutherland & Co., W. H. C. Hussman Sons, Samuel Larribee, Charles W. Foil Co., and Jacob Gehron, all of Williamsport, Pa.; Beard Const. Co., Reading, Pa.; Cramp & Co., Denckla Building; George A. Fuller Co., 321 Walnut street; Frank G. Stewart, 1619 Sansom street; Turner Const. Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street, and Wark Co., 231 South Broad street, all of Philadelphia, are figuring.

Mill (alts. and add.), Weissport, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Bowman Silk Co., Weissport, Pa. Brick, 2 stories, 14x60 feet, tin roof, maple floors, elevators, fire doors, rolled steel sash (heating, plumbing and electric work reserved). Owner taking bids due February 20th. L. M. Kratz & Sons, 1802 Liberty street; Peters & Marshall, 532½ North Fifteenth street, Allentown, Pa., and Quentin & Lesher, Weissport, Pa., figuring.

Garage, Maple street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, H. A. Foering, 828 West Broad street, Bethlehem, Pa. Steel, concrete, brick, 3 stories 60x100 feet, slag roof, concrete floors, steam heat, electric light, metal lath, freight elevators, pressed steel lumber, fire doors. Owner has received bids.

Apartment House, Drexel Hill, Pa. Architect, Charles Talley, 2536 North Thirty-first street, Philadelphia. Owner, Edward H. Wanamaker, Drexel Hill, Pa. Owner taking bids due as soon as possible. George E. Gross, 1633 Ranstead street; Bowden Const. Co., 1713 Sansom street; Friel-McLeister Co., Inc., 2645 East Norris street; Edward Fay & Son, 2 South Mole street; Curtis Grindrod Co., 10 South Eighteenth street; George H. Evans, Inc., 109 North Thirteenth street, Philadelphia, and J. A. Mahoney, Drexel Hill, Pa., are figuring.

Cottages (2), St. Davids, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Paul De Mills, St. Davids, Pa. Hollow tile and stucco, 1½ stories, 22x22 feet, slate roof, oak and pine floors, electric lighting. Architect has received bids.

School Annex, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, School Board of Allentown, P. Wenner, secretary, Allentown. Brick, fireproof, 2 stories and basement, 65x100 feet, asphalt roof, concrete, tile and maple floors (heating, electric work and plumbing reserved), tile and terrazzo work, metal lath, roof ventilators, metal window guards, metal weather strips, fire doors, water and dampproofing, iron stairs. Lowest bid submitted by W. H. Gangwere, Allentown National Bank Building, $67,500.

Jefferson School Annex, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, School Board of Allentown, T. P. Wenner, secretary, Allentown. Brick, steel, 2 stories and basement, 130x200 feet, concrete foundations, slag roof, hardwood floors, electric light, metal lath (heating, plumbing, lighting reserved), tile, marble and terrazzo work, metal lath, rolled steel sash, fire doors, roof ventilators. Lowest bidder: W. H. Gangwere, Allentown National Bank Building, $242,000.

Church, Delphi, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners Mission Church, Archdiocese of Philadelphia, Eighteenth and Race streets. Hollow tile and plaster, 1 story, 50x100 feet, tin roof, pine floors, electric lighting (heating reserved). Architect taking bids, due February 17th. A. T. Allabaca, Spring Mount, Pa.; A. L. Brotherman, Royersford, Pa.; Fred Schuler, Norristown, Pa., and Penn Building Co., 1502 West Venango street, Philadelphia, are figuring.

Pennsylvania Contracts Awarded

Department Store (fire repairs), Seventh and Edgemont streets, Chester, Pa., $7,000. Architect, private plans. Owner, R. Schwartz, on premises. Sheet metal work, tin roof repairs, pine floors, electric work, mill work, miscellaneous restoration. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Ice Cream Plant, Kingston, Pa. Architects, McConnell & Co., Pittsburgh, Pa. Owner, M. F. Fadden, 1409 Mulberry street, Scranton, Pa. Brick, steel, 3 stories, 100x220 feet, slag roof, concrete floors, steam heat, electric light, concrete floors, hollow tile. Contract awarded to Barrett Const. Co., 130 Washington street, Scranton, Pa.

Fire House, Bridgeport, Pa. Architect, Charles J. Cummiskey, 118 Sharpnack street, Philadelphia. Owners, Goodwill Fire Co., Bridgeport, Pa. Brick and steel, 2 stories, 48x85 feet, stone foundations, slate roof, cement and pine floors, electric lighting, metal lath, fire doors. Contract awarded to Walter A. Evitts, 5022 Chancellor street, Philadelphia.

Residence and Garage, Wynnewood, Pa., $35,000. Architect, private plans. Owner, Thomas M. Scott, care of Penn Mutual Life Inc. Co., Seventh and Walnut streets, Philadelphia. Stone, 2½ stories, 44x33 feet, wing 40x15 feet. Garage 1½ stories, 17x20 feet, slate roof, hardwood and cement floors, electric lighting, tile work (plumbing and heating reserved). Contract awarded to Don Peters, 515 Pelham Road, who is taking sub-bids.

Central Office Building (alts., and add.), Easton, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick, cut stone and steel, 2 stories, 85x34 feet, slag roof, cement floors, metal lath and window guards, bond, iron work, demolition, steam heat, electric lighting, tile and marble work, sheet metal sash. Contract awarded to Howard E. Stout, Bethlehem, Pa.

Country Club (alts. and add.), Manoa, Delaware Co., Pa., $17,000. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, Llanerch Country Club, Upper Darby P. O., Pa. Stone, 1 story and mezzanine, 58 x28 feet, tile roof, pine and plastic floors, metal lath, demolition and hardware, plastering, plumbing, painting, glazing, iron work. Contract awarded to Edw. Fay & Son, 2 South Mole street, Philadelphia.

New Jersey Construction News

Stores and Apartments, Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Eyre Williams and Charles Wright, Riverton, N. J. Brick, 3 stories. Plans about completed. Architect will be ready for bids in a few days.

Ferry Houses and Wharves, Lardner's Point, Tacony, Philadelphia, and Palmyra, N. J. Engineer, John Meigs, 1211 Walnut street, Philadelphia. Owners, Tacony and Palmyra Ferry Co., care of George T. Sale, Liberty Building. Engineers taking bids due February 9th. Carr & Courtney, Twenty-third and Green streets; Barclay White Co., 1713 Sansom street; William Linker, 735 Cherry street; E. H. Keefer & Son, 1321 Rodman street; Pierce Henon Co., Juniper street, all of Philadelphia; George W. Shaner & Son, Palmyra, N. J., and Simpson, Brown & Co., 90 West street, New York City, are figuring.

Apartment House, Atlantic and Dover avenues, Chelsea, N. J. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, name withheld. Brick and stucco, 3 stories, 105x150 feet, 36 apartments, Spanish tile roof, hardwood floors, modulated steam heating, electric lighting, tile work. Architect will be ready for bids in three weeks.

School, National Park, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, H. H. Brenin, secretary, National Park. Brick and concrete, 2 stories, slag roof, pine floors, electric lighting. Plans in progress. Too early for details.

High School, Haddon Heights, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Haddon Heights, N. J. Brick, stone and reinforced concrete, 3 stories, 20 classrooms and auditorium, slag roof, electric light. Preliminary plans in progress.

Residence, Merchantville, N. J. Architect, J. Fletcher Street, 129 South Fifth street,

Philadelphia. Owner, H. E. Munger, Broadway and Federal streets, Camden, N. J. Brick, plaster and steel, 2½ and 1½ stories, shingle roof, oak and pine and cement floors, hollow tile, electric light, tile and marble work (plumbing, heating, lighting fixtures and finished hardware reserved). Architect taking revised bids due February 15th. J. Sims Wilson Co., 1125 Brown street; H .E. Grau Co., 1707 Sansom street; North Eastern Const. Co., Commercial Trust Building, Philadelphia; Harry Hinchman, Camden, N. J.; Martin P. James, Merchantville, N. J.; Hampton Brothers, Atlantic City, N. J., and Stewart L. Maines, Merchantville, N. J., are figuring.

Laundry (add.), East State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton Rough Dry Laundry, 927 East State street, Trenton. Brick, 1 story, 25x100 feet, slag roof, concrete floors, electric lighting, rolled steel skylights, roof ventilators. Plans in progress.

Stable and Store Room, Newark, N. J., $16,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Capitol Building, Trenton, N. J. Owners, New Jersey State Military Board, care of Colonel Hill, Capitol Building, Trenton, N. J. Brick and frame, 2 stories, 20x150 feet, slag roof, concrete and pine floors, electric light. Board will take bids in two weeks.

Lodge Building, Trenton, N. J., $300,000. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Knights of Columbus, G. W. Goff, 221 North Warren street, Trenton. Brick, fireproof, 3 stories, 75x80 feet and 80x120 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, hollow tile, elevators, safety treads, roof ventilators, rolled steel skylights, fire doors, hollow metal doors, waterproofing, iron stairs, ornamental iron work. Architect will be ready for bids March 15th.

School (add.), Pennington Road, Ewing Township, New Jersey. Architect, A. A. Schumann, 202 West State street, Trenton, N. J. Owner, Ewing Township School Board, C. G. Berwyn, chairman, Ewing Township, N. J. Brick, 1 story and basement, slate and slag roof, 4-room addition, maple and concrete floors (heating, plumbing and electric work reserved), hollow tile, metal lath, Spanish tile work, rolled steel skylights, fire doors, roof ventilators, waterproofing, structural steel, floor hardener. Architect taking bids due February 21st.

School, Parkway, Ewing Township, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Ewing Township School Board, C. G. Berwyn, secretary, Ewing Township. Brick, 1 story and basement, 92x87 feet, concrete foundations, slate and slag roof, maple and concrete floors (heating, plumbing, electric work reserved), hollow tile, metal lath, Spanish tile work, rolled steel skylights, fire doors, roof ventilators, structural steel work. Architect ready for bids due February 21st.

Apartment and Stores, West Collingswood, N. J. Architect, Arthur B. Gill, 328 Market street, Camden, N. J. Owner, Frederick Brown, care of architect. Hollow tile and frame, 2 stories, 40x60 feet, asphalt shingle roof, pine floors, hot water heat, electric light. Plans in progress.

Church (add.), Pitman, N. J. Architect, Arthur B. Gill, 328 Market street, Camden, N. J. Owners, Pitman Baptist Church, care of architect. Concrete block basement, 28x56 feet, and 1 story, 28x28 feet, pine floors, steam heat, electric lighting. Plans in progress.

Residence and Garage, Stratford and Atlantic avenues, Atlantic City, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, G. Tumillilo, 927 South Eighth street, Philadelphia. Hollow tile and stucco, 3 stories and basement, 30x43 feet, tile roof, hardwood and cement floors, electric light, waterproofing, stone and steel work (heating reserved). Owner taking bids, due as soon as possible. Ceraseli & Scurci, 1709 South Eleventh street, figuring.

High School, Swedesboro, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Swedesboro School Board, Hugh McCullough, President. Lowest bids submitted by: Sinclair & Griggs, Medical Arts Building, Philadelphia, $158,900; Irwin & Leighton, 126 North Twelfth street, Philadelphia, $159,800.

Miscellaneous Construction News

Residence, Binghamton, N. Y. Architects, Russoniello & Price, Scranton Life Building, Scranton, Pa. Owner, John Varvo, on premises. Hollow tile, 2½ stories, 32x48 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

(Continued from Page 88.)

areaways, if allowed, is usually given as a percentage of the width of the sidewalk. Porticos are usually restricted to a percentage of the frontage of the building. Marquees may usually project to the curb, but must be a given height above the sidewalk. Continuous string-course, balconies or cornices (except the main cornice) are usually allowed to project a foot or two. The projection of main cornices should be governed by the height of the building and the width of the sidewalk. Isolated balconies may project several feet, but should not cover more than a given percentage of the frontage. Provision should be made to collect rain water falling on roofs, cornices, marquees and balconies, and to dispose of it so that it is not discharged upon the sidewalk. It is also suggested that the upper surface of window sills and strings courses be so sloped as to prevent the accumulation of snow or the standing thereon of articles liable to fall upon passers-by.

II. Projections under the sidewalk: If the street is likely to be occupied by a subway, the projection of foundations beyond the building line should be prohibited. The space below the sidewalk may usually be occupied by a vault, but if this is permitted it should be by revocable license. It is not uncommon to reserve a given space between the curb line and the outer side of the vault for pipes and conduits.

III. Party walls: their construction should only be permitted where, by mutual agreement between adjoining owners, they become an easement and their demolition is not allowed except by mutual consent; but the channeling of such a wall for columns should be permitted. A minimum distance between the party line and the ends of beams resting on such a wall should be prescribed. The method of strengthening such walls by underpinning and addition of extra thickness should be given in detail.

IV. Carrying up chimneys: where a new building is built contiguous to and higher than a wall in which there are flues, it is usual to require that those flues be carried up to the level of the new building by the owner of the latter, at his own expense.

Part II—*Construction.*

4. Structural Design. The necessary data are:

(*a*) The loading for which floors must be calculated. These have already been given, but in tall buildings where the live load is comparatively small and shifting, however, it is usual to neglect a portion or all of it in designing the foundations and the columns of the lower stories.

(*b*) Roof loading and wind pressure.

(*c*) Allowable bearing on soils.

(*d*) Allowable stresses on material.

(*e*) Formulae to be used.

5. Details of Construction. This section should prescribe those features which it is not possible to obtain by calculation, but which experience has shown to be necessary. They are best segregated into portions of the building thus:

(*a*) Foundations.

Protection of steel against corrosion, details of caisson construction, types of concrete or composite piles.

(*b*) Walls and partitions.

Minimum thicknesses, combination of different materials, skeleton and cage construction, bonding, hollow walls, recesses and chases, arches, parapets, fire-stops in studding.

(*c*) Floors.

Bearing of beams, beveling of ends of joists, bedding of sleepers, provision against dry rot, framing around chimneys and hearths, provision for disposal of water from fire hose (scuppers).

(*d*) Roofs. Guards on skylights.

(*dd*) Towers, turrets and spires.

(*e*) Stairs. Height of hand rail.

(*f*) Chimneys and fireplaces.

(*g*) Installation of heating apparatus.

(*h*) Plumbing and drainage regulations.

(*i*) Installation of electric wiring and apparatus.

(*j*) Elevators and dumbwaiters and their enclosures.

(*k*) Gasoline storage tanks.

(*l*) Theater curtains.

(*m*) Flagpoles.

(*n*) Roof signs.

(*o*) Fences.

(*p*) Parade stands.

6. Specification of Materials and Workmanship. This section should follow the lines of an architect's specification, but prescribing only those features necessary for safety and security.

(*a*) Masonry.

Quality of brick, stone, terra cotta, cement, sand, etc.; Method of mixture of mortar and concrete. Quality of reinforcing steel and method of placing. Location of points for stoppage of work and expansion joints.

(*b*) Steelwork and cast iron.

Quality of materials, details of connections, protection against corrosion.

(*c*) Carpentry.

Quality of material, method of framing.

7. Methods of Construction. This *section refers to the processes to be fol-*section refers to the processes to be followed during the acutal erection of the building.

(*a*) Shoring and underpinning.

Shoring of sides of excavation and of walls of adjoining buildings. Underpinning walls to deepen foundation.

(*b*) Concrete forms.

Method of making and removing. Length of time to be allowed for setting of concrete.

(*c*) Protection of passers-by.

Sidewalk platforms.

(*d*) Protection of workmen.

Guards at elevators, construction of scaffolds.

(*e*) Demolition of buildings.

(*f*) Temporary safeguards for unsafe buildings.

Part III—*Administration.*

8. Enforcement of the Provisions of the Code. This should be placed in the hands of a Superintendent of Buildings, who should be appointed for a long period, say ten years, subject to removal only for cause, and who should have the necessary assistants of his own selection to enable him to execute the following duties and powers:

(*a*) Interpretation of code.

He should issue regulations interpretative of the code; if necessary, establish tests to be used to determine the qualities of material and conduct tests of new materials. He should have the right to decide if and when materials and forms of construction not covered by the code should be used.

(*b*) Permits to construct.

No construction should be started without a permit, to be issued after the plans and specifications have been examined to determine whether they fully comply with the code. Applications for permits should bear the consent of the owner.

(*c*) Inspection of work.

Provision should be made for frequent inspection during construction, and means provided to rebuild work done in violation of the code and to immediately correct any condition which is dangerous.

(*d*) Certificates of occupancy.

No building should be occupied until a final inspection is made and a certificate issued to show that the building complies with the provisions of the code and is considered thereby suited for the purpose for which it is intended. This certificate should be required to be kept in evidence, and no change of occupancy permitted without the necessary alterations and a new certificate.

(*e*) Building surveys.

Provision should be made for periodic inspection of completed buildings to see that they are safe and suitable for the purpose for which they are being used. Powers should be granted to cause corrections of any faulty condition, immediately if necessary. A fund should be provided for emergency work of this character.

(f) Procedure in case of disaster.

It should be the duty of the police to summon a representative of the Superintendent of Buildings in cases of collaspe of buildings and all rescue or demolition work should be under his direction.

(*g*) Appeals.

Right of appeal should be granted from the decisions of plan examiners or inspecctors to the Superintendent and from his decisions to a Board of architects, engineers and builders.

* * *

ONE WAY TO MAKE THINGS HUM

Why not have national settlement periods? Many business houses carry on their books overdue accounts while they, in turn, owe money to creditors and banks. Why not make the dollars work and restore credit to an absolutely sound basis? Why not follow the lead of Jones & Co.?

Jones & Co. had $5,000 coming to them from J. M. Smith. They wrote to Smith, who was their good friend, that they needed the money and that, if possible, he should borrow the amount from the bank. Smith did. Jones & Co. then paid the $5,000 to Brown & Co. Brown & Co. paid an overdue bill to the O. K. Mercantile Company, and the latter sent its check for $5,000 to J. M. Smith who canceled his time loan at the bank.

Every dollar can be made to work this way if a two weeks' national settlement period were adopted by the business men of the United States. Within ten days Smith's $5,000 paid Jones & Co.; Jones & Co. paid what they owed to Brown & Co.; Brown & Co. squared their account with the O. K. Mercantile Company; Smith paid back the money he borrowed from the bank. And there you are.

This is a practical idea. It could be worked at least twice a year. If taken up seriously by the business world it would make things hum. Anyway, it is a suggestion that merits the attention of credit men. The man who makes it workable will be almost as great as the man who invented interest.

—*Manufactured News.*

JANUARY BUILDING HEAVIEST IN YEARS

The January report of the Philadelphia Bureau of Building Inspection is the most encouraging issued since January, 1896. Not in any January since that time has the bureau recorded so much construction. The only records available are those kept since 1895, when the present system was installed, with the organization of the bureau.

A table showing the number of permits issued each January and estimated cost, from 1912 to 1922, follows:

Year	Permits	Cost
1912	448	$1,250,220
1913	672	1,456,740
1914	595	1,247,985
1915	499	910,805
1916	534	1,859,090
1917	449	2,144,630
1918	216	1,684,510
1919	331	684,505
1920	519	3,553,790
1921	529	1,124,440
1922	634	4,411,320

Another record was broken in January. Dwelling construction had probably a greater part in making last month's estimated cost high than any other class of building. Permits were issued for the erection of 403 dwellings at an estimated cost of $1,635,860, or an average cost of about $4,059. In 1921 the average cost of each dwelling was slightly more than $5,000 and in 1920 about $8,000. This is held to reflect the drop in dwelling construction costs. Permits issued now call mainly for the popular two-story brick dwellings, with hardwood floors, electric lights, hot water heat and gas range.

During 1920 the tendency was to build dwellings of a more expensive type. Building and loan associations have been forced to foreclose on many properties of this kind. Builders who had some of the higher priced houses have made reductions.

Construction leaders say that while prices now are low, they are not likely to remain so. Their explanation is that as soon as the demand for materials becomes greater prices will rise. Even now prices have advanced on several lines of building materials.

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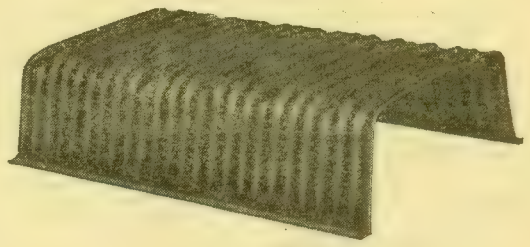
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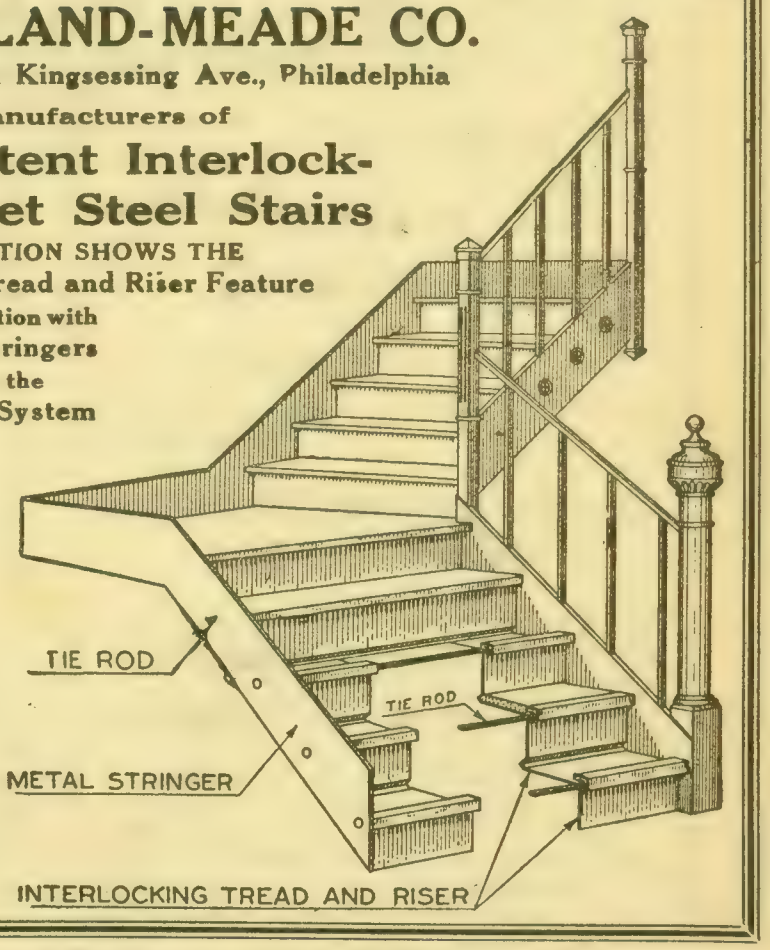
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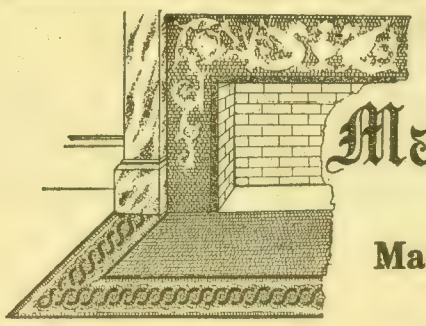
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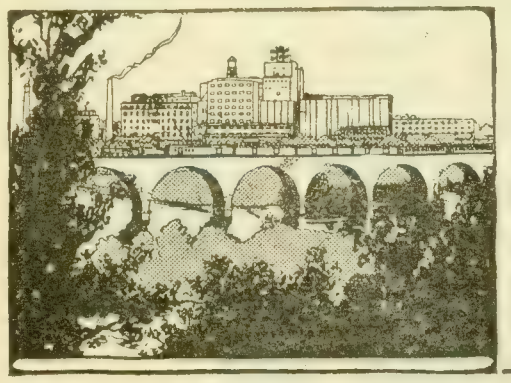
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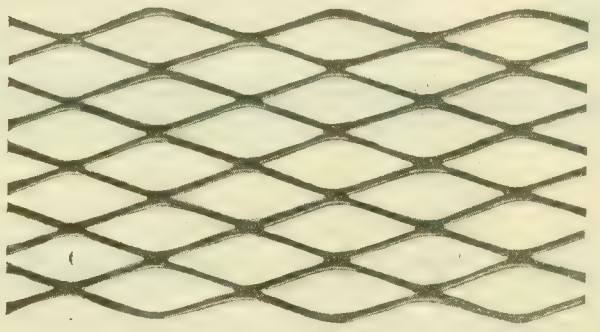
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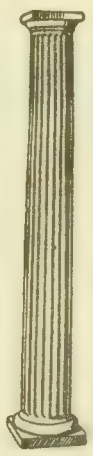
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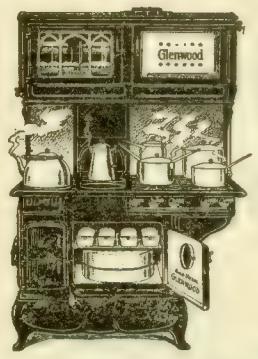
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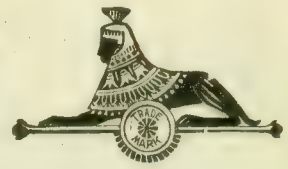
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VOLUME XXXVII
Number 7

PHILADELPHIA
February 15, 1922

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As The Editor Sees It

EVERY industry today, and none more than Construction, is vitally interested in the railroad situation. No business revival can be successful unless transportation facilities are adequate. Therefore the following statement, made recently by the Secretary of Commerce, before the Interstate Commerce Commission, is particularly pertinent at this time.

"In responding to the invitation to discuss some of the problems present in your general railroad investigation, I shall devote myself to three of the railway topics which especially arise from the present economic situation.

I do not need to review at length that we are recovering from the destruction and inflation of the greatest war in history, that we are suffering from the waste, the extravagance, and over-expansion of the post-war boom, and that the war has brought about great shifts in the movement and price levels of commodities between nations.

I would, however, suggest that it might be profitable for our people to get a somewhat clearer perspective of our own, and the world's troubles and problems. Even a superficial survey must bring us out of an atmosphere of gloomy introspection into an assuring realization that, great as our dislocations may seem to be, we relatively are in an enviable position. Our nation is unshaken, and as a people, we are getting our bearings in a world of perplexing economic adjustments. While there is unemployment and lack of profit taking, we are free of panic. We are comparatively more restless than injured. For instance as heavy as our tax burden is it is still less than one-half as great in proportion to our national productivity as the other states in the war.

The violence of our readjustment, however, is without parallel, and we sometimes tend to color our measures for the future by the depression we are in. The fact is that we must predicate all plans for the future on the ultimate return of the American people to a normal economic activity, with our annual progress in the expansion of our production, of our plant and equipment, of our skill and our efficiency. There can be no question that this return will take place and no responsible body will approach our problems on any other basis. Not one of us would submit to the charge that we were not prepared to bet against any odds upon the future of the United States. Our problem is to expedite this recovery—to speed up employment of our workers and thereby find market for our farmers.

If we look at the national economic situation as a whole, the greatest impulse that can be given to recovery from any source whatever is a reduction of rates on primary commodities combined with the immediate resumption of railway construction and equipment. The first depends upon reduction of operating costs, the second upon restoration of credit for our railways.

One thing is absolute. Our transportation facilities are below the needs of our country, and unless we have a quick resumption of construction, the whole community—agriculture, commercial, and industrial—will be gasping from a strangulation caused by insufficient transportation the moment that our business activities resume. For the past five years, we have had no consequential expansion to our railway transportation machine. With but one interval of 9 months in 1918 and 1919 we had a car shortage throughout the whole of the years 1916-17-18-19 and 20. This shortage rose to as high as 160,000 cars, with a corresponding shortage of motive power. We paid tremendous sums in commercial losses and unemployment in consequence. We laid it onto the war. We should lay it onto our lack of foresight and antagonism to railroads.

Few people seem to realize the amount of expansion in our transportation machine necessary to keep pace with the growth of the country. And an equal few seem to have any notion of the price we pay for not having it. Our country is more dependent upon railway transport than any other. All others have comparatively greater cost lines and internal waterways. The experience of the twenty years before the war has shown that we must build an extension of lines,

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including terminal facilities, additional sidings, etc., every year equal to the construction of a new railway from New York to San Francisco. We must add at least 120,000 cars and 2,500 locomotives annually to our equipment. Since we entered the war in 1917 we constructed at least 10,000 miles of railways less than our increasing population and economic development called for and we are behind in rolling stock by about 4,000 locomotives and 200,000 cars. I wish to emphasize that unless we can have an immediate resumption of construction and equipment our commercial community will pay treble for the cost of the whole of them in their losses of a single season. The very moment that we reach anything like normal business we shall see a repetition of car shortages, followed by an increase in the cost of coal to the consumer from one to three dollars a ton; we shall again see premiums of 20 cents a bushel for the use of cars for moving grain; we shall in fact see a shortage of commodities to the consumer; and we shall see gluts upon the hands of the producers. We shall see factories filled with orders again closed for lack of cars; we shall see large intermittency in employment; and we shall see the usual profiteering in commodities due to a stricture between the producer and consumer.

There would be no difficulty whatever, by basing such losses on the experiences we have already had, to calculate a loss to the American people of a billion dollars for each one of these periodic transportation shortages.

Furthermore, there is nothing that is so irrecoverable a loss to the nation as idle shops and idle men. Today we have both. There is nothing that will so quickly start the springs of business and employment as an immediate resumption of construction and equipment of the railways. When business does resume, we shall need all of our capacity for the production of consumable goods. We shall not only find it strangled for lack of transportation, but we shall find ourselves plunging into the manufacture of this very railway equipment and construction in competition with consumable goods for materials and labor. Herein lies the basic cause of destructive price inflation and booms with all their waste and over-expansion. In times of depression, we should prepare for the future and by doing so we can cure the depression itself.

If we examine the fundamental reasons for failure to resume equipment, we will find them in the loss of confidence in railways as an investment and the competition of tax free securities. We have passed the period of credit strain in this depression. Surplus capital is pouring by hundreds of millions monthly into tax free securities and foreign loans, and yet our railways are unable to finance the most moderate of construction programs. The confidence of the public in railway investments was at so low an ebb before the war that finance by the issue of common and preferred stocks had become impossible and railway expansion was living on bond issues. The confidence of an assurance and continuity in earning power to cover this burden of bonds has even lowered since the war began, because of the uncertainties of both rising and falling prices, of rising and falling wages, of rising and falling rates preventing all regularity of earnings upon which an investor could be convinced, even if no other difficult factors entered into the problem. I see no occasion to go into the labyrinth of past railway finance, its propriety, or lack of propriety, its foolishness or its skill. That generation is gone by. This Comission approaches the financial problems of the railways upon the actual value, not upon their issues of securities, and I take it we are living for the future, not the past. We want transportation, and we want it with the values of private initiative and clean public service.

If we look to the immediate future with its complete necessity of paring the railway earnings down to little more than bond interest, until we give relief to the shipper (and thus the primary foundation to business recovery) I can see little likelihood of convincing the investor as to his margins of safety. There is an atmosphere that our railways will never again earn profits, and that they are not as an industry worthy of investment, and that because private investors will not come to their assistance nobody can do anything.

Far from it being impossible for our railways again to return to a profitable footing, I believe it is possible to demonstrate that on an average they will become very profitable. If we assume that the reduction of prices and wage levels will settle at a plane no lower than 50 per cent. over pre-war, and if we assume that the present rates are to maintain, and if we assume restored traffic, then the earnings of our railways would exceed 15 per cent. on the whole of the Commission's tentative valuation. Surely there is room here for safety to investment, as well as relief to the shipper.

But the circumstances being as they are, confidence being at a low ebb, we do not have the equipment necessary for our business. We are driving headlong for a setback to our whole commerce the very moment that we begin to get on our feet.

In these circumstances it seems to me vital that the railways as our greatest industry should propose a courageous program of broad visioned betterments, and, if necessary, the Government should consider giving the use of its superior credit. It would not cost the taxpayer a cent to give the Government guarantee to equipment trusts upon the primary responsibility of the railways the proceeds devoted entirely to improvement and equipment. This is no proposal to take money from the taxpayer. It is a proposal to save him from paying treble the amount of his guarantee in profiteering and losses. It will render a reduction of rates earlier, for unless something is done the improvements will have to be paid over years out of increased rates. Nor would we lose a cent upon the guarantee, for if American railways can not earn interest upon their borrowings, let us throw up our hands and prepare for a second Russia.

A real program of construction would in its various ramifications give relief to five or six hundred thousand of our unemployed. It would enable even added numbers to increase their standard of living, and thus give increased market to the produce of our farmers. Our farmers who look to foreign markets for their

(Cotinued on Page 115.)



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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Seventieth and Paschall avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, 3 stories, 28x48 feet, and 1 story, 20x22 feet, slate roof, hardwood floors, hot water heat. Plans in progress.

Apartment House, 114 Northeast Boulevard, Philadelphia. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, David Elin, care of architect. Brick, 3 stories, 22x65 feet, slag roof, hardwood floors, metal lath, hot water heating, electric lighting, tile and marble work. Plans in progress.

Warehouse (add.), Ninth and Tioga streets, Philadelphia. Architect, private plans. Owner, Frank C. Snedaker & Co., Inc., on premises. Brick, 3 stories, 60x60 feet, slag roof, iron work, electric work. Owner is building and taking sub-bids due as soon as possible.

Parochoal School, Thompson street, between Buckius and Ash streets. Architect, Paul Monaghan, 1218 Chestnut street, Philadelphia. Owner, All Saints' Roman Catholic Church, on premises. Stone, brick and steel, 2 stories, 136x66 feet, slate and slag roof, maple floors, hollow tile, metal lath, metal window guards, iron work, demolition (heating and plumbing reserved), electric light. Architect taking bids due February 18th. R. C. Ballinger Co., 925 Walnut street; Doyle & Co., 1519 Sansom street; Frank G. Stewart, 1619 Sansom street; A. R. Raff Cont. Co., 1635 Thompson street, and Ketcham & McQuade, 1029 Brown street, are figuring.

Garage, Office and Storage, Southeast Corner Adams avenue and Wingohocking street. Architect, private plans. Owner, George H. Thirsk, 4305 Horrocks street, Philadelphia. Brick, 3 stories, 43½x289 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Church, Twenty-third and McKean streets, Philadelphia, $75,000. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Edmund's Roman Catholic Church, Rev. John J. Greensil, 1909 South Twenty-third street, Philadelphia. Stone, 1 story. Preliminary plans in progress.

Victory Hall, Eighteenth, Nineteenth, Vine and Wood streets, Philadelphia. Architect, not yet selected. Owners, City of Philadelphia, care of Commissioner Holmes, City Hall, Philadelphia. Work contemplated.

Church (fire rebuilding), Norris Square, Philadelphia. Architect, not yet selected. Owners, Norris Square Methodist Episcopal Church, Rev. George W. Tovey, pastor, 2225 North Mascher street, chairman, Building Committee; George S. Ford, 611 West York street, Philadelphia. Work contemplated.

Residence, Frankford, Philadelphia. Architect, W. Macey Stanton, 1310 Arch street, Philadelphia. Owner, name withheld. Stone, 3 stories, 25x36 feet, slate and shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residences and Stores (19), Fifth, Raymond and Annsburg streets, $70,700. Architect, private plans. Owner, George Schwinn, Thirteenth and Lindley avenue, Philadelphia. Brick, 2 stories, 15x44 feet, 15x35 feet, 11x8 feet, 16x44 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (8), Armstrong street, West of Lawrence street, $30,400. Architect, private plans. Owner, George Schwinn, Thirteenth and Lindley avenue, Philadelphia. Brick, 2 stories, 16½x37 feet 10 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Show and Stock Room, Eleventh street, below Glenwood avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Joseph T. Brown, care of architect. Brick, slow burning, 3 stories, 32x98 feet, slag roof, maple floors, metal lath, elevators, metal ceilings, steam heat, electric light. Plans in progress. Architect will take bids in one week.

Store and Show Room (rear add.), 2644 Germantown avenue. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Harry Young, on premises. Brick, concrete and steel, 3 stories, 16x50 feet, slag roof, maple floors, metal lath, metal ceilings, rolled steel sash, hot water heating. Owner ready for sub-bids in one week.

Garage, 31 West Willow Grove avenue, Philadelphia, $7,500. Architect, private plans. Owner, Antonio Roman, 40 West Willow Grove avenue, Philadelphia. Brick, 1 story, 51½x69 feet 8 inches, slag roof, cement floors. Owner will build.

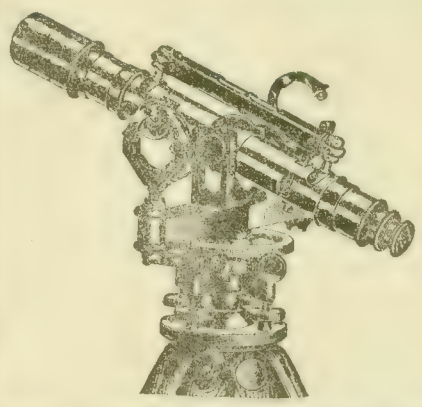
Nurses' Dining Room (alts.), Old York Road, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Jewish Hospital, Old York road. Cement work, carpentry, mill work, painting, plumbing, changing electric work, tile work. Architect taking bids due February 16th. William R. Dougherty, 1610 Sansom street, and Thomas C. Trafford, 1713 Sansom street, are figuring.

Office Building, 1512 Walnut street, Philadelphia. Architect ,Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets. General alterations and addition. Plans about completed. Architect will take bids in a few days.

Residence and Garage, Lincoln Drive, West of McCallum street. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, BruceC. McFadden, 1400 Frankford avenue, Philadelphia. Brick or stone. Preliminary plans being drawn. Too early for details.

Residences (3), Harrison street, East of Frankford avenue, $12,000 each. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Rush Brothers, 1006 Harrison street, Philadelphia. Brick, 3 stories, 15x55 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build and are taking sub-bids.

Residences and Stores (6), Fifth and Chew streets, Germantown, Philadelphia, $45,000. Architect, R. H. Kline, 1612 South Fourth



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street, Philadelphia. Owner, Benjamin Zorochoff, 2411 South Tenth street, Philadelphia. Brick, 1 story, 20x55 feet, 16x31 feet, 12x24 feet and 18x65 feet, hot water heat, electric light, slag roof, oak and yellow pine floors. Owner will build.

Residences (10), Second and Duncannon streets, Philadelphia, $38,300. Architect, private plans. Owner, Louis Braning, 4933 North Fifth street, Philadelphia. Brick, 2 stories, 16x45 feet and 15x30 feet and 12x10½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Miscellaneous Supplies and Construction, City of Philadelphia. Owners, Department of Public Works, Bureau of Highways, Frank H. Caven, Director, 232 City Hall. Grading, asphalt paving, dressed granite block paving, grading and repaving Kensington avenue, vitrified block paving, reconstruction of Wyoming Avenue Bridge dock, curb and footway work, steel lockers, bolts, nuts, etc., iron and steel bars, wagon lumber and hardware, lumber, brick. Owners taking bids due February 17th at noon.

Store and Offices, 1516 Chestnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Joseph H. Kass, Finance Building, Philadelphia. Brick. Preliminary plans in progress.

Factory, Sixteenth and Indiana avenue, Philadelphia. Architect, Eugene A. Stopper, 1507 Arch street, Philadelphia. Owner, Martin H. Walrath, Park and Glenwood avenues, Philadelphia. Architect taking bids due February 18th. Frank Achuff, 1600 North Front street; H. E. Baton, 1713 Sansom street; Carr & Courtney, Twenty-third and Green streets; F. W. Cook, 1765 North Twenty-seventh street; William R. Dougherty, 1610 Sansom street; Frank H. Fitt, 315 Chew street; Harry Gill, Jr., 2514 Germantown avenue; Mitchell Brothers, 2125 Race street; H. E. Monaghan & Son, 2615 North Sixth street; McNeill Valentine Co., 841 North Broad street; G. J. Reich, 5125 North Tenth street; Christian F. Roeger, 617 Delancey street; John Schnabel, Inc., Denckla Building; John Schuster, 3552 North Fifteenth street; P. A. Sorenson, 1133 Callowhill street; Stewart Brothers, 2526 North Orkney street; A. N. Tatro, 1345 Arch street; Tourison & Tourison, 1310 Arch street; H. H. Wehmeyer, 309 West Cumberland street, and Levering & Garrigues, North American Building, are figuring.

Store (alts.), 1721 Walnut street, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, Domino Veranti, 1302 Walnut street, Philadelphia. Brick, cut stone and steel, 3 stories, 34x22 feet, slag roof, pine and composition floors, metal window guards, fire doors, rolled steel skylights, hollow metal sash, iron work, demolition. Architect taking bids due February 17th. William R. Dougherty, 1610 Sansom street; Edward Fay & Son, 2 South Mole street; Charles McCaul Co., 1619 Sansom street; Smith-Hardican Co., 1606 Cherry street, and John Bothright, Flanders Building, are figuring.

Residences, 6722 Chew street, Philadelphia. Architect, Joseph Keyes, Otis Building, Philadelphia. Owner, Herbert Smith, care of architect. Stone and brick, 2½ stories, 28x32 feet, slate roof, oak and pine floors, metal lath, dumb waiter, tile work, central heating, electric lighting, iron work. Architect taking bids. Penn Building Co., Reg., 1504 West Venango street; Samuel Harting, 20 East Johnson street; D. J. Clemenson, 1738 Rowan street; J. Hoffman, 1907 West Allegheny avenue; Joseph S. Creamer, 1739 North Twenty-ninth street, and Howard Trexler, 212 East Hortter street, are figuring.

Residence and Garage, Allen Lane, Philadelphia. Architect, Samuel D. Hawley & Co., 30 South Seventeenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x60 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress. Will take bids in two weeks.

Office Building, 1525 Walnut street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1424 South Penn Square, Philadelphia. Brick, steel and stone, 2 stories, 20x120 feet. Plans in progress. Will take bids in about one month.

Garage and Repair Shop (add.), 523 South Sixty-first street, $2,600. Architect, private plans. Owner, Harry H. Johnson, 1220 South Millick street, Philadelphia. Brick, 1 story, 22x65 feet, slag roof, cement floors. Owner will build.

Residences (6), Northwest Corner Stenton and High streets, Philadelphia, $24,500. Architect, private plans. Owner, J. G. Pisutelli, Heed Building, Philadelphia. Brick, 2 stories, 20x32 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences, West side Ogontz avenue, North of Medark avenue, $87,500. Architect, private plans. Owner, Jacob M. Faust, 4611 North Broad street, Philadelphia. Brick, 2 stories, 16x31 feet and 12½x11 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residence and Store, 1438 South Fifty-eighth street, $2,000. Architect, private plans. Owner, Nathan Litman, 1592 North Fifty-second street, Philadelphia. Brick, 1 story add., 12x16 feet, slag roof, yellow pine floors. Owner will build.

Residence, South side Rockland street, West of B street, $4,850. Architect, private plans. Owner, Joseph A. Blair, 406 Chew street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Parsonage, Olney, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, St. James' Methodist Episcopal Church, Rev. E. F. Randolph, 137 East Tabor Road. Stone and half timber, 2½ stories, slate roof, hardwood floors ,hot water heat, electric light, tile work. Working plans in progress.

Residences (30), Fifty-sixth street, Pentridge to Ridgewood streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Henry J. McLean, 521 South Fifty-second street, Philadelphia. Brick, 2 stories, 16x40 feet, (12) garages in basements, hardwood, pine and cement floors, hot water heat, electric light. Owner taking sub-bids.

Stores (6), Apartments (12), Frankford, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone and brick, 3 stories, 16x70 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal bulks. Plans in progress.

Residence and Garage, Moylan avenue, St. Martin's, Philadelphia. Architects, Seeburg-

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er & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Mrs. Henry Bains, Jr., Haverford, Pa. Brick, 2½ stories, 102x54 feet, and 1½ stories, 25x48 feet, slate roof, hardwood and cement floors, vapor heat, electric light, tile and marble work. Plans in progress. Architects will be ready for bids in one week.

Building (add.), 3313 North Broad street, Philadelphia. Architect, private plans. Owners, North Philadelphia Realty Board, care of William Brinkworth, Eighth and Lehigh avenue, Philadelphia. Brick, 1 story and basement, 62x24 feet, slag roof, maple floors, roof ventilators, iron stairs, hollow metal skylights, electric light, hot water heat, stone foundations. Owner taking bids due February 24th. H. H. Wehmeyer, 509 West Cumberland street; H. P. Werner & Co., 3243 Germantown avenue; Jacob Y. Loux, Fifteenth and Hunting Park avenue, and G. J. Reich, 5126 North Tenth street, are figuring.

Repairs to Wyoming Avenue Bridge, over Tacony Creek, Philadelphia. Architect, private plans. Owners, Bureau of Highways, Department of Public Works, City Hall. Structural steel and concrete work. Owners taking bids due February 17th. Monaghan & Losse, Inc., 3016 Chestnut street, are figuring.

Power Plant (alt., add. and completion), Frankford Arsenal. Owners, United States Government, Constructing Quartermaster, Frankford Arsenal, Philadelphia. Lowest bid submitted by Herman Mayer Co., 105 Walnut street, Philadelphia, $238,889.

Six-Family House, Orthodox and Wyoming avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, slag and tile roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress.

Mill Building, Southwest Corner Delaware avenue and Dickinson street. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, John H. Morice, on premises. Brick and steel, 2 stories, 156x80 feet, slag roof, cement and granite block floors, hollow tile, metal lath, waterproofing, iron work, floor hardener, bond ,rolled steel sash and doors, hollow metal skylights, demolition (heating, electric lighting, elevators, sprinklers and plumbing reserved). Architect taking bids due February 21st. Cramp & Co., Denckla Building; Wark Co., 231 South Broad street; John R. Wiggins Co., Eighteenth and Cherry streets; Hughes Foulkrod Co., Commonwealth Building, and Turner Const. Co., 1713 Sansom street, are figuring.

Store and Residence (alts. and add.), Garnett and Snyder avenue. Architect, Frank R. Nickels, 225 S. Sydenham street, Philadelphia. Owner's name withheld. Brick, 2 stories, 10x16 feet, slag roof, pine floors, cement work, electric work (heating reserved), general alterations, flush bulks. Architect taking bids, due February 18th. Pierce Henon Co., Juniper and Pine street, bidding.

Store (alts. and add.), Sixtieth and Haverford avenue, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner's name withheld. General alterations and addition. Plans in progress. Architect will be ready for bids in one week.

Store (alts.), Thirteenth and Snyder avenue, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owners, South Philadelphia Loan Office, on premises. New brick front, steel and iron work, electric light, tile and marble work, bond, hardware, painting, glazing, carpentry. Architect taking bids, due February 21st. F. B. Davis & Son, Inc., 240 North Sixteenth street; Lam Building Co., 1001 Wood street; B. & L. Const, Co., 705 Pierce street, and Fred Quato, 1323 Snyder avenue, are figuring.

Residence and 25 Garages, Third and Wyoming avenue, Philadelphia. Architect, Peter Kuhn, 3538 North Eighth street, Philadelphia. Owner, Adolph H. M. Nagel, 3916 North Fairhill street, Philadelphia. Brick, 2 stories, 16x45 feet, and from 7x18 feet to 10x18 feet, slag roof, cement floors, central heating, electric lighting, hardwood and pine floors. Owner taking bids, due February 15. E. Allen Reeves, Abington, Pa., and C. Stinger, Fairhill street, near Lindley avenue, are figuring.

Bungalow, Roxborough, Philadelphia. Architect, private plans. Owner, Lee Wetherill, care of builder. Stone and clap board, 2 stories, 26x32 feet 10 inches, shingle roof, pine floors, hot air heat, electric light. E. Allen Reeves, Inc., Abington, Pa., taking sub-bids, due February 18th.

Residences (6), on Wynnewood Road, and (4), Sixty-third street, below Sherwood Road, Overbrook, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Joseph A. Meloney, 6308 Sherwood Road, Philadelphia. Stone, brick and stucco, 3 stories, 16x46 feet. Garages (10), 12x20 feet, slate roof, hardwood floors, hot water heating, electric light, tile and marble work, cement work. Owner is taking sub-bids.

Riding Academy (add.), 637 Carpenter Lane, Philadelphia. Architect, Gerald Burns, 5422 Germantown avenue, Philadelphia. Owner, W. B. Thomas, on premises. Brick walls, slag and tile roof, cement floors. Contract awarded to Kerbaugh & Heart, Duval and Jefferson streets, Germantown, Philadelphia.

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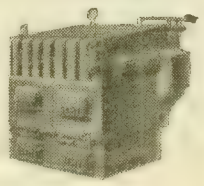
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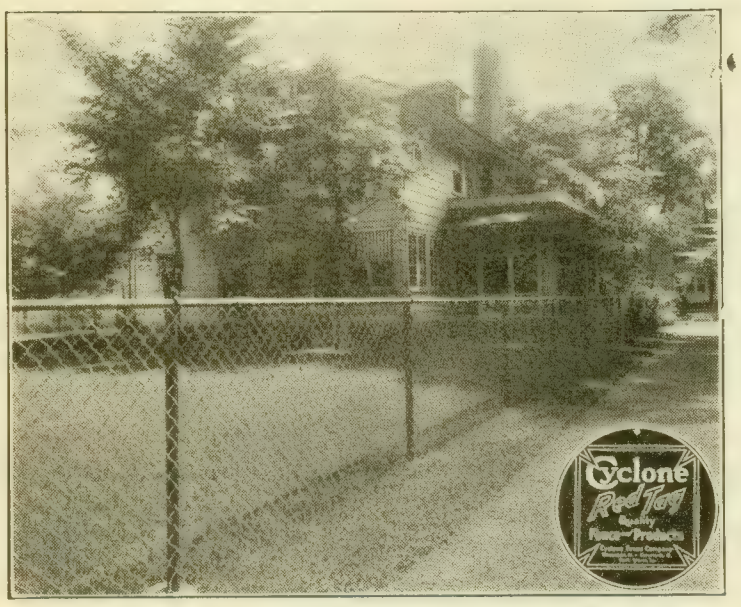
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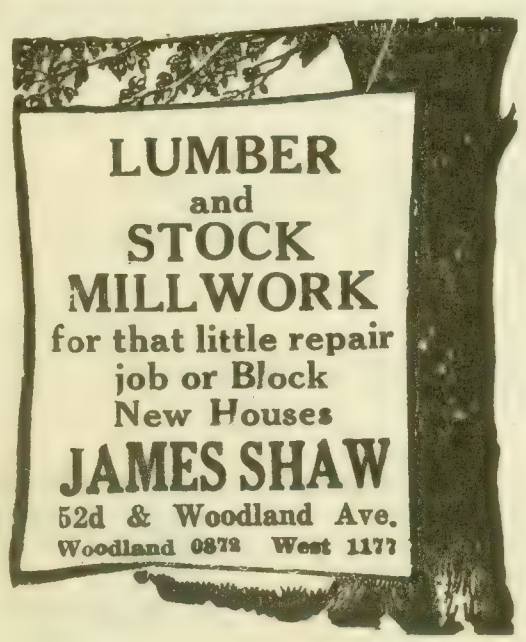
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, Girard avenue and Watts street, Philadelphia, $50,000. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, A. W. Pusey, West End Trust Building, Philadelphia. Brick, steel and concrete, 3 stories, 35x120 feet, and 50x40 feet, slag roof, cement floors, elevators, steam heat, electric light, rolled steel sash, copper skylights, elevators. Contract awarded to John W. Emrey Co., 34 South Sixteenth street, Philadelphia.

Apartment (add. and alts.), 4045 Spring Garden street, $2,500. Architect, private plans. Owner, Anna W. Boney, 3901 Baring street, Philadelphia. Brick, 3 stories, 7x12 feet, slag roof, yellow pine floors. Contract awarded to Charles E. Clark, 3921 Ludlow street, Philadelphia.

Storage Shed, Canel street, North of Fountain street, $2,500. Owners, A. L. Baker Co., Fountain street, Philadelphia. Corrugated iron, 1 story, 20x47 feet. Contract awarded to Barclay White & Co., 1713 Sansom street.

Filling Stations (4), Broad and Girard avenue, $4,000; Fifty-second and Lancaster avenue, $3,700; Forty-sixth and Walnut streets, $4,000; Sixty-third and Chestnut streets, Philadelphia, $2,800. Architect, private plans. Owners, Sun Company, Finance Building, Philadelphia. Brick and stucco, 1 story, 13x19 feet, shingle tile roof, cement floor, metal lath, waterproofing, iron work, floor hardener, hot water heating, electric lighting. Contract awarded to Simon Reece, 2424 North Park avenue, Philadelphia.

Residences and Stores (add.), 2521-31-33-35 South Seventh street, $4,000. Architect, private plans. Owner, Abraham Austin, 215 South Fifteenth street, Philadelphia. Brick, 1 story, 11x9 feet, slag roof, yellow pine floors, electric light. Contract awarded to A. Sonnenfeld, 287 South Sixty-third street, Philadelphia.

Shop, 1228 North Hutchinson street, $2,200. Architect, private plans. Owner, John Hanley, 1251 North Tenth street, Philadelphia. Brick, 1 story, 18x64 feet, slag roof, pine floors. Contract awarded to Harry Drake, 3139 Frankford avenue.

Store and Storage (add.), 3129 North Broad street, $11,000. Architect, private plans. Owners, Motor Accessories Co., 3129 North Broad street, Philadelphia. Brick, 2 stories, 20x60 feet, slag roof, electric work, cement work, steam heat. Contract awarded to Daniel Josephson, 5405 Walnut street, Philadelphia.

Residence and Store, 4425 Edgemont avenue, Philadelphia, $5,900. Architect, private plans. Owner, Joseph Franzak, on premises. Brick, 1 and 2 story add., 16x15 feet, slag roof, yellow pine floors. Contract awarded to John Kazmerczak, 2416 Orthodox street, Philadelphia.

Store and Offices, Southwest Corner Fifth and Rising Sun avenue, $12,000. Architect, private plans. Owner, Jennie Coscarello, 102 Shunk street, Philadelphia. Brick, 2 stories, 75x49½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Frank Coscarello, Northwest Corner Front and Shunk streets.

Residence (alts.), West side Wises Mill road, North of Shawmont avenue, $8,000. Architect, Emil C. Schmidt, 1520 Locust street, Philadelphia. Owner, Thomas E. Mitten, on premises . Plastering, carpentry, mill work, hot water heat, electric light, plumbing, shingle roof, yellow pine floors. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Building (alts.), Southeast Corner Second and Somerset streets, Philadelphia. Architect, private plans. Owners, Brewer Brothers, on premises. General interior alterations. Contract awarded to Frank K. Stahl, 2711 North Park avenue, Philadelphia.

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Stores and Offices, 2319 Walnut street, Philadelphia, $4,500. Architect, private plans. Owner, Mrs. Rose D'Aras, 2319 Walnut street, Philadelphia. Brick, 2 stories, 15½x19½ feet, slag roof, yellow pine floors, hot water heat, electric light, iron work, plumbing, carpentry. Contract awarded to Joseph E. Foster, 806 Walnut street, Philadelphia.

Underground Comfort Station, MacPherson Square, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Frank H. Caven, 216 City Hall. Brick, 1 story, 40x32 feet, concrete and dirt roof, cement floors, hollow tile, waterproofing, iron and marble work. Contract awarded to Holmesburg Const. Co., Holmesburg, Philadelphia, $13,000. Plumbing, D. J. Keating, 270 South Twentieth street, $1,723. Heating, L. J. Sommers & Son, 2436 Brown street, $875. Electric work, J. F. Buchanan Co., 1719 Chestnut street, $576.

Church (rebuilding), Sixteenth and Tioga streets, $100,000. Architect, Edwin A. Yeo, 225 South Sydenham street, Philadelphia. Owners, Tioga Presbyterian Church, on premises. Cut stone, slag, tin and slate roof, pine floors, mill work, carpentry, plastering, metal lath, painting, glazing, hardware, tin covered doors, hollow metal sash, iron work, structural steel work (heating, lighting, plumbing, tile and marble work separate bids). Contract awarded to Bowden Const. Co., 1713 Sansom street, Philadelphia.

Garage, 1616 North Fifteenth street, Philadelphia, $4,500. Architect, private plans. Owner, Sarah Ostroff, on premises. Brick, 1 story, 24x80 feet, slag roof, cement floors electric light. Contract awarded to R. Defrilvis & Co., 1422 Moore street, Philadelphia.

Residence and Store (add.), 143 South Sixtieth street, Philadelphia, $3,000. Architect, private plans. Owner, A. Hasanjian, 6100 Walnut street, Philadelphia. Brick, 1 story add., 10½x15 feet ,3x16 feet, slag roof, yellow pine floors, electric work. Contract awarded to J. H. Porter & Co., 241 South Sixtieth street, Philadelphia.

Building (alts.), 223-25 South Fifth street, $2,000. Architect, private plans. Owner, Max Willig, Lincoln Building, Philadelphia. Repairing fire damage, general interior work. Contract awarded to Harry Troutman, 2119 South Fourth street, Philadelphia.

Residence, West School Lane, Germantown, Philadelphia. Architect, John C. Molitor, 125 West Chelten avenue. Owner, name withheld. Frame and plaster, 2½ stories, irregular size, slate roof, oak and pine floors, waterproofing, iron work, tile and marble work, demolition (heating and electric work reserved). Contract awarded to H. H. Burrell, 206 South Quince street.

Residence, Cresheim Valley road and Stenton avenue, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Dr. Isaac Starr, Jr., Stenton avenue, Philadelphia. Stone, 2 stories, 30x50 feet, slate roof, hot water heating, electric lighting, tile and marble work. Contract awarded to James Riley & Son, Forrest avenue, Mt. Airy, Philadelphia.

Warehouse, 1422 North Eighth street, Philadelphia, $65,000. Architect, private plans. Owner, E. J. McAleer, on premises. Brick, slow burning, 5 stories, 27x90 feet and 84x40 feet, 4-ply slag roof, maple, plank and concrete floors, steel girder clear span on third, fourth and fifth floors, rolled steel sash, hollow metal skylights, kalamein and almetal doors, rolling steel and bifold doors, floor hardener, iron work. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Residence, Wyndmoor avenue, Stenton, Philadelphia. Architect, William P. Parker, 1310 Arch street, Philadelphia. Owner, Miss Sarah F. Finch, 153 East Washington lane, Germantown. Hollow tile and stucco, 2½ stories, 29x35 feet, shingle roof, oak floors, hot water heat, electric light, tile work. Contract awarded to Adolph Korn, Clifton Heights, Pa.

Store (alts.), 36 North Ninth street, $2,500. Architect, Frank E. Hahn, 1112 Chestnut street. Owners, Price Gas & Electric Co., on premises. Carpentry, mill work, plastering, painting, tile work. Contract awarded to George H. Evans, Inc., 109 North Thirteenth street.

Garages (2), Carlisle street and Oregon avenue, $9,000. Architect, private plans. Owner, Pompey Ansell, 6503 Race street, Philadelphia. Hollow tile, 1 story, 46x54 feet 8 inches and 35x46 feet, slag roof, cement floors. Contract awarded to H. Dinkelbaker, 1612 McKean street, Philadelphia.

Factory, Ontario and C streets, Philadelphia. Architects, Furness Evans Co., 315 South Fifteenth street, Philadelphia. Owners, Wittman Moriarity Co., Fourth and Vine streets, Philadelphia. Brick, 2 stories, 195x77 feet, and 1 story, 111x72 feet, slag roof, cement floors, metal lath, rolled steel sash and skylights, iron work (heat, electric light, plumbing and elevators reservers). Contract awarded to William F. Newberry Co., Otis Building, Philadelphia.

Residence (alts.) to Stores and Apartments, Thirty-fifth and Spring Garden streets, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, James E. Wilson, care of architect. General alterations and additions, slag roof, partitions, plumbing, tile work, hollow metal skylights, fire doors (heating and electric work reserved). Contract awarded to W. A. Evitts, Forty-fourth and Locust streets.

Service Building, 708-14 South Broad street, Philadelphia. Architect, M. H. Dickinson, 6161 Market street, Philadelphia. Owner, Charles Kahn, Morris Building. Brick and terra cotta, 1 story, 20x12 feet, slag roof, cement floor. Contract awarded to John Schnabel, Inc., Denckla Building, Philadelphia.

Ferry Slips, Market Street Wharves, Camden and Philadelphia. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Corrugated iron and steel, wood piles, slag roof. Contract awarded to McLean Const. Co., Chestnut Street Pier.

Storage (add.), 619-21-23-25 South Broad street, Philadelphia, $4,000. Architect, private plans. Owner, Bernard Cohen, Shubert Building, Philadelphia. Brick, 1 story, 13x24 feet, slag roof, yellow pine floors, electric light. Contract awarded to S. H. Levin, 1631 South Fifth street, Philadelphia.

Store (alts.), 1718 Chestnut street, Philadelphia, $3,800. Architect, private plans. Owner, H. H. Battles, Twelfth street below Chestnut street, Philadelphia. General alterations, bulk windows, plate glass. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Residences and Stores (2) (add.), 889-891 North Sixty-sixth street, $3,000. Architect, private plans. Owner, E. Paperman, 6119 Lansdowne avenue, Philadelphia. Brick, 1 and 2 story add., 15x7 feet, slag roof, yellow pine floors, electric light. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

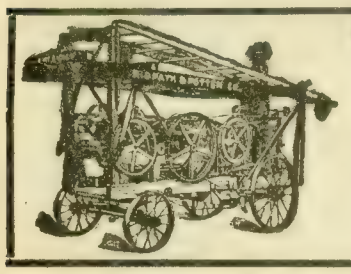
Store and Office (alts.), 5837 Germantown avenue, $2,800. Architect, private plans. Owner, J. Weiss, 5853 Germantown avenue, Philadelphia. General interior alterations. Contract awarded to W. J. Cowell, 5712 Crittenden street, Philadelphia.

Residence and Store (add.), 246 West Girard avenue, $3,000. Architect, private plans. Owner, D. H. Morshajhian, on premises. Brick, 1 story add., 18x12 feet and 3x41 feet, slag roof, electric light, yellow pine floors. Contract awarded to Harry Glass, 1809 North Seventh street, Philadelphia.

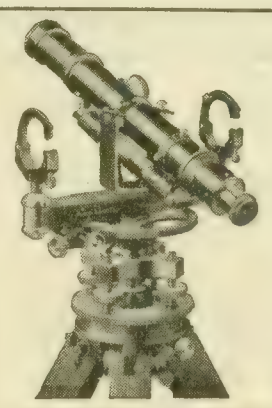
Apartment (add. and alts.), 451 Green Lane, Philadelphia, $2,000. Architect, private plans. Owners, Sara and Annetta Bovard, on premises. Brick, first and third story add., 16x8 feet and 20x17 feet, slag roof, yellow pine floors, hot water heat. Contract awarded to William H. Eddleman & Son, 453 Green Lane, Roxboro, Philadelphia.

Textile Plant, Wyoming avenue and connecting R. R., east of G street. Architect, W. E. S. Dyer, Land Title Building, Philadelphia Owner, Client 880. Reinforced concrete, steel and brick. Drying and shipping building, 5 stories, 80x12 feet; Whizz room, 1 story, 55x48 feet; Bleach room, 1 story, 40x40 feet; chemical shed, 1 story, 33x28 feet; top drying room, 1 story, 46x74 feet; dye house (B), building, 1 story, 108x74 feet, dye house (A) building, 1 story, 210x73 feet, dye room building, 1 story, 25x31 feet; sample room, 1 story, 29x31 feet; scour house, 2 stories, 110 x52 feet; repair shop, 1 story, 14x30 feet; chemical shed, 1 story, 57x23 feet; stock room, 2 stories, 46x44 feet, garage, 1 story, 80x30 feet; office, 2 stories, 46x44 feet, Carey built roof, cement and maple floors, metal lath, safety treads, wire window guards, waterproofing, terra cotta, iron work, bond, fire doors, rolled steel sash and skylights, tile and terrazzo work. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Main Manufacturing Building, Second and Norris streets, Philadelphia. Architect, private plans. Owners, Gotham Silk Hosiery Co., New York City. Brick, concrete and steel, 10 stories and basement, 56x122 feet and 20x20 feet, alterations and additions to present building, slag roof, cement floors, elevators, roof ventilators, waterproofing, steam heat, electric light, demolition, rolled steel sash and skylights, fire doors, iron work. Plans in progress. Contract awarded to Wm. Steele & Sons Co., 1600 Parkway, Philadelphia.



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Office and Warehouse, Seventh and Somerset streets, Philadelphia. Architect, private plans. Owners, John Block & Co., on premises. Brick and steel, 2 stories and basement, provisions for third floor, 64x79 feet, slag roof, cement floors, steam heat, electric light, iron work. Contract awarded to Wm. Steele & Sons Co., 1600 Parkway, who are taking sub-bids.

Store and Office Building (alts.), 3644 N. Broad street, Philadelphia. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, L. F. Burke, 1422 West Erie avenue, Philadelphia. Brick and cut stone front, cement work, asbestos roof, oak, pine and composition floors, carpentry, tile and marble work, metal lath, roof ventilator, metal bulks, iron and steel work, painting. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia.

PENNSYLVANIA Construction News

Hotel, West Broad street, Tamaqua, Pa., $400,000. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Tamaqua Hotel Corporation, William A. McGonigle, 40 West Broad street, Tamaqua, Pa., president. Brick and stone, 5 stories, 75x150 feet. Preliminary plans in progress. Too early for details.

Senior High School, Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Board of Education, William Satterthwait, president, Doylestown, Pa. Brick. Architect selected. Too early for details.

Sunday School and Community Building, Easton, Pa., $50,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Memorial Reformed Congregation, J. P. Diffenderger, 1915 Freemansburg avenue, Easton, Pa. Brick and stone, 2 stories. Preliminary plans in progress. Too early for details.

Sunday School, Walnut avenue, Jenkintown, Pa. Architects, American Baptist Home Mission Society Architectural Department, 23 East Twenty-sixth street, New York City. Owners, Jenkintown Baptist Church, care of George S. Young, Jenkintown; L. I. Dutton, Washington Lane and Township Line, Jenkintown, Pa., chairman, Building Committee. Stone, 1 story. Plans in progress.

Apartment House (2-family), Lansdowne, Pa. Architect, W. Macey Stanton, 1310 Arch street, Philadelphia. Owner, E. G. Beacham. Lansdowne, Pa. Frame and stucco, 2 stories, 26x38 feet, shingle roof, hardwood floors, hot water heat, electric lighting, (2) garages, cement work. Plans in progress. Architects will take bids.

Residence, Lansdowne, Pa. Architect, W. Macy Stanton, 1310 Arch street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 24x32 feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress.

Filling Station, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia, and Shamokin, Pa. Owners, Jewell Oil Co., Shamokin, Pa. Brick, 1 story, 16x30 feet, tile roof, cement floors, hot water heat, electric light. Owners are taking bids.

School (high), Sinking Spring, Pa. Architect, E. Z. Scholl, 36 Robeson street, Reading, Pa. Owners, Sinking Spring School Board, O. L. Weidman, Sinking Spring. Brick. Architect selected.

Church, Dauberville, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, Bellman's Church, J. G. Kauffman, Dauberville, Pa. Brick, 1 story and basement. Plans in progress.

Residence (alts. and add.), Laurel Hill, Berks County, Pa. Architect, Alex. Smith, Berks County Trust Building, Reading, Pa. Owner, George Edmundson, Reading, Pa. Frame, shingle roof, hardwood floors, hot air heat, electric light, general alterations. Plans in progress.

Residence, Reading, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owner, Warren Adams, St. Lawrence, Pa. Tapestry brick, 2½ stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light. Plans in progress.

Residence, Minersville, Pa. Architect, G. O. Freeman, 24 North Sixth street, Reading, Pa. Owner, Dr. Quinn, Minersville, Pa. Terra cotta, brick, 2 stories, 25x90 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Bulkhead, Platform, Beater Room Building and Room No. 1, Front and Market streets, Chester, Pa. Architect, private plans. Owners, Chester Paper Co., P. C. Matter, president, on premises. Brick and steel, 1 story, 85x43 feet, gypsum slag covered roof, concrete floors, waterproofing, rolled steel sash and skylights. Owners taking bids due February 22nd. Irwin & Leighton, 126 North Twelfth street, are figuring.

Store and Residence, Rosemont, Pa. Architect, private plans. Owner, S. Barbano, Rosemont, Pa. Brick, cut stone and steel, 2 stories, 43x32 feet and 12x21 feet, slag roof, oak and pine floors, metal lath, hot water heat, electric lighting. Owner taking bids due February 16th. Pierce Henon Co., Juniper and Pine streets, Philadelphia, are figuring.

Stores (2), Apartments (4), Media, Pa. Architect, Newton B. Flounders, Media, Pa. Owner, name withheld. Brick and stone, 3 stories, 42x28 feet, asbestos shingle and slag roof, hardwood floors, roof ventilators, plate glass, steel work, hot water heat, electric light, tile and marble work. Plans in progress.

Residence and Garage, Drexel Hill, Pa., $25,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress.

Tuberculosis Hospital, Luzerne County, Pa., $300,000. Associate architects, E. H. Poggi, D. F. Innes and C. H. Levy, 176 South Main street, Wilkes-Barre, Pa. Owners, County Commissioners, Court House, Wilkes-Barre, Pa. Details not determined. Plans in progress.

Housing Development, Kingston, Pa., $1,500,000. Architect, Edmund H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owners, name withheld. Details undecided. Plans in progress.

Residence and Garage, Reynolds street, Kingston, Pa., $25,000. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, J. T. Evans, 154 South Main street, Wilkes-Barre, Pa. Frame, 2½ stories, 45x32 feet, shingle roof, hardwood floors (heating, plumbing, sheet metal work reserved). Architect taking bids.

Bank (alts. and add.), Honesdale, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, Dime Bank of Honesdale, care of Mr. Wright, Honesdale, Pa. Brick, limestone, 1 story, 50x65 feet, tin roof, marble work, electric light, metal lath, metal window guards, bank fixtures, alterations. Owners taking bids due February 24th. Shepherd Const. Co., Wilkes-Barre, Pa.; Hower & Stender, Peter Stepp and H. Beibman & Son, Scranton, Pa., are figuring.

Church, Brockton, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading. Owners, St. Batholomew's Roman Catholic Church, Rev. John Fink, Brockton. Stone, 1 story and basement, 52x100 feet. Owner and architect taking bids due February 23rd. Andrew Breslin, Summit Hill; Albin Graff, Tamaqua; L. Riebe, Lewistown, and Charles Quandel, Minersville, are figuring.

Residence (alts.) and Stable, Berks County, Pa. Architect, Alex. Smith, Berks County Trust Building, Reading, Pa. Owner, J. B. Cullum, Berks County, Pa. Frame, stone, 2 stories, 25x30 feet, shingle roof, concrete floors, electric light, general alterations to house. Architect taking bids due February 23rd. Beard Const. Co., 658 Penn street; C. H. Schlegel, 2250 Perkiomen avenue; D. Hunter, 820 North Eleventh street, and William Spatz, 36 North Sixth street, Reading, Pa., are figuring.

Residence and Garage, Reading, Pa. Architect, Alex. Smith, Berks County Trust

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Building, Reading, Pa. Owner, Mrs. Margaret H. Gunther, 1159 Penn street, Reading. Brick, 2 and 1 stories, 43x40 feet and 21x23 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due February 23rd. Beard Const. Co., 658 Penn street; C. H. Schlegel, 2250 Perkiomen avenue; D. Hunter, 820 North Eleventh street, and William Spatz, 36 North Sixth street, Reading, Pa., are figuring.

Dormitory Building, Womelsdorf, Pa. Architect, M. D. Deehant, Deehant Building, Reading, Pa. Owners, Bethany Orphans' Home, W. F. Moore, superintendent, on premises. Stone, 2 and 3 stories, 70x50 feet, slate roof, pine and composition floors, hot water heat, electric light, plumbing. Architect taking bids due February 23rd. C. H. Schlegel, 2250 Perkiomen avenue; D. H. Hunter, 820 North Eleventh street; Beard Const. Co., 658 Penn street; Sharp Const. Co., 22 North Fifth street; L. H. Focht & Son, Baer Building, and G. H. Derr, all of Reading; D. L. Saylor & Son, Annville; W. H. Gangwere & Co., Ritter & Smith and Butz & Clader, Allentown, and J. P. Croll, Steelton, figuring.

Church, Emaus, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, St. John's Reformed Church, Emaus, Pa. Stone, 1 story and basement, 42x86 feet, slate roof, maple floors. Owners taking bids due February 23rd. Beard Const. Co., 658 Penn street; William E. Spatz, 36 North Sixth street, Reading; Peters & Marshall, 532½ North Fifteenth street; Tilghman Moyer Co., 824 Hamilton street; Butz & Clader, Ainey Building; Ochs Const. Co., Allentown; Forrest Speck Co., Bethlehem, Pa., and Arthur P. Houser, 106 Macungie avenue, Emaus, Pa., are figuring.

Nurses' Cottage and Cottage No. 4, Laurelton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Pennsylvania Village for Feeble Minded Women, Laurelton, Pa. Architect taking bids due February 18th. Pursley Von Neida, Laurelton, Pa.; H. A. Moore Co., Milton, Pa., and William C. Rambo, Laurelton, Pa., are figuring.

Twin Residence, Jenkintown, Pa. Architect, Herbert Eves, Jenkintown, Pa. Owners, Herbert & Schuyler Eves, Jenkintown, Pa. Brick and frame, 2 stories, 20x27 feet, (2) wings, 10x14 feet, shingle roof, pine floors, stone foundations, hot air heat, electric light. Owners taking bids due February 21st. Roy Randall, Horsham, Pa., is figuring.

Road Work, Pennsylvania. Owners, State Highway Department, Capitol Building, Harrisburg, Pa. Owners taking bids due February 28th at 10 A. M. Forms and specifications free. Plans, $2.50 per set. Certified check must accompany each bid.

Blair County, Route 57, and Centre County, Snyder, Taylor and Rush Townships, 39,672 feet. One course reinforced concrete. Certified check, $4,000.

Bradford County, R-299, Application 1248, Canton and Leroy Townships, 34x433 feet. One course reinforced concrete. Certified check, $4,000.

Butler and Venango Counties, Routes 218 and 233, Mercer and Irwin Townships and Harrisville Borough, 57,665 feet. One course reinforced concrete. Certified check, $4,000.

Clarion County, R-65, Ashland and Elk Township, 25x175 feet. One course reinforced concrete. Certified check, $4,000.

Clearfield County, Application 1787, Section 1, Curwensville Borough, 5,776 feet. One course reinforced concrete. Certified check, $1,500.

Clearfield County, A-1787, Section 2, Pike Township, 8,217 feet. One course reinforced concrete. Certified check, $1,500.

Clearfield County, A-1787, Section 3, Knox Township, 16,812 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $3,000.

Clearfield County, A-1545, R-234 ,Houtzdale Borough and Woodward Township, 24,573 feet. One course reinforced concrete. Certified check, $4,000.

Cumberland County, R-34, Lemoyne and Camp Hill Borough, 11,774 feet. One course reinforced concrete. Certified check, $2,000.

Indiana County, R-228, Young Township, 27,632 feet. One course reinforced concrete. Certified check, $4,000.

Indiana County, R-228, White, Center, Blacklick and Young Townships and Jacksonville Borough, 39,083 feet. One course reinforced concrete. Certified check, $4,000.

Perry County, Route 196, Buffalo Township and Liverpool Borough, 33,672 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $4,000.

Montgomery County, R-178, Lower Gwynead, Whitpain and East Norriton Townships, 27,412 feet. One ourse reinforced concrete. Certified check, $4,000.

Snyder County, R-194, 195, 229, Penn, Union and Chapman Townships, 63,935 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $4,000.

Somerset County, R-51, Summit and Elk Township and Salisbury Borough, 27,981 feet. One ourse reinforced concrete. Certified check, $4,000.

Washington County, R-268, Speers and Dunlevy Boroughs and Allen Township, 13,473 feet. One course reinforced concrete. Certified check, $3,000.

Road Work, Pennsylvania. Owners, State Highway Department, Capitol Building, Harrisburg, Pa. Owners taking bids due March 1st at 10 A. M. Forms and specifications free. Plans, $2.50 per set. Certified check must accompany each bid.

Allegheny and Westmoreland Counties, R-120, North Versailles Township and North Huntingdon Township, 11,378 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $2,000.

Bradford County, Application 1303, Athens Township, 10,500 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $2,000.

Bradford County, A-1246, Smithfield and Ulster Townships, 37,713 feet. Either bituminous surfae course on concrete foundation or one course reinforced concrete. Certified check, $4,000.

Clarion County, A-1328, R-237, Red Bank Township, 12,392 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $2,000.

Clearfield County, A-1435, R-234, Osceola Mills Borough, 2,432 feet. One course reinforced concrete. Certified check, $1,000.

Clearfield County, A-1776, Sandy Township, 22,515 feet. One course reinforced concrete. Certified check, $4,000.

Clearfield County, A-1774, Sandy Township, 6,954 feet. One course reinforced concrete. Certified check, $1,500.

Cumberland County, A-1707, West Pennsboro Township, 34,529 feet. One course reinforced concrete. Certified check, $4,000.

Delaware County, R-225, Radnor Township, 15,128 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $2,000.

Indiana County, R-262, Greene, Grant and Montgomery Townships, 31,174 feet. One course reinforced concrete. Certified check, $4,000.

Jefferson County, R-248, A-1584, 89, 81, Rose and Eldred Townships, and Brookville Borough, 19,210 feet. One course reinforced concrete. Certified check, $3,500.

Jefferson County, R-61, A-1590, Snyder Township, 10,707 feet. One course reinforced concrete and Hillside vitrified brick. Certified check, $2,000.

Perry and Juniata Townships, R-195, Susquehanna Township, Liverpool Township and Perry County, 33,042 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Cretified check, $4,000.

McKean County, R-210, Eldred Township and Borough, 20,156 feet. One course reinforced concrete. Certified check, $4,000.

Northumberland County, R-18, Upper Augusta Township, 2,833 feet. One course reinforced concrete. Certified check, $1,000.

Venango County, R-65, Rockland and Cranberry Townships, 37,714 feet. One course reinforced concrete. Certified check, $4,000.

Residence (alts.) to (3) Apartments, 107 Owen avenue, Lansdowne, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, John Wright, care of architect. General alterations. Plans in progress.

Residence and Garage, Brookline, Pa. Architect, Richard R. Neely, 2136 Pine street, Philadelphia. Owner, T. G. McGahan, 41 N. Sixty-third street, Philadelphia. Frame and stucco, 2½ stories, 30x30 feet, shingle roof, oak floors, hot water heat, electric light, tile work. Revised plans in progress.

Residence, Lansdowne, Pa. Architect, R. R. Neely, 2136 Pine street, Philadelphia. Owner, Wallace Bostick, care of architect. Brick, frame and stucco, 2½ stories, 25x42 feet, shingle roof, pine floors, hot air heat, electric light, tile work. Revised plans in progress.

High School, Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education, Pottstown, Pa. Preliminary plans in progress.

School (alts. and add.), Norwood, Pa. Architect, private plans. Owners, St. Gabriel's R. C. Church, Rev. Joseph P. Smith, Norwood, Pa. Two-story addition to present building. Owners taking bids, due February 27th. LeRoy K. Smith, Forty-first and Chester avenue, and Christian E. White, 6209 Girard avenue, figuring.

Bungalow, Beechwood, Pa. Architect, R. H. Pepper, 1963 Laveer street, Philadelphia. Architect, Frank Kline, care of architect. Brick, 1½ stories, 26x42 feet, shingle roof, hot water heat, electric lighting, pine floors. Architect taking bids, due February 21st. E. Allen Reeves, Inc., Abington, Pa.; W. John Stevens, Inc., Wyncote, Pa., and Joseph McClain, Collingdale, Pa., are figuring.

Bungalow, Horsham, Pa. Architect, private plans. Owner, Douglas Dorsey, Abington, Pa. Frame and stone, 1 story, 19x21 feet, shingle roof, pine floors, electric lighting. Owner taking bids, due February 21st. E. Allen Reeves, Inc., Abington, Pa., are figuring.

Residence and Store (add.), 1307-09 Derry street, Harrisburg. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, J. H. Erb, on premises. Brick, 3 stories, 32x62 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Residence, Sixteenth and Hunter streets, Harrisburg, Pa. Architect, private plans. Owner, Mr. Burley, care of Appleby & Whittaker Co., 216 South Second street, Harrisburg, Pa. Brick, 2½ stories, 20x30 feet, slate roof, hardwood floors, steam heat, electric light ,tile work. Plans in progress.

Double Residence and Garage, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Samuel Green, Royersford, Pa. Brick and stone, 2

stories, 29x38 feet, tin roof, yellow pine floors, (heating, lighting and plumbing reserved), waterproofing. Plans in progress. Owner will take bids.

Apartments (6), Carlisle, Pa. Architect, R. E. Starr, Spooner Building, Harrisburg, Pa. Owner, R. R. Todd, South and Pitt streets, Carlisle, Pa. Brick, 3 stories, 50x58 feet, slate roof, pine floors, electric light, tile work, iron stairs. Owner will take general bids this week.

Residence, Womelsburg, Pa. Architect, G. F. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Harry Eshlman, on premises. Brick, 1 story, 50x30 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Owner will sub-let.

Residence, Eseherton, Pa. Architect, R. E. Williams, 26 South Third street, Harrisburg, Pa. Owner, Fred O. Smith, 1533 South Thirteenth street, Philadelphia. Brick, 2½ stories, 22x31 feet, slate roof, pine floors, hot air heat, electric light. Owner will sub-let.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Dr. Charles Rebuch, 412 North Third street, Harrisburg, Pa. Brick, 2½ stories, 35x60 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Plans in progress.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Judge Hargest, 222 Market street, Harrisburg, Pa. Brick, 2½ stories, 31x80 feet, wing 18x25 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Plans in progress.

Residence, Seneca street, Harrisburg, Pa. Architect, private plans. Owner, Frank B. Zug, 1409 North Second street, Harrisburg, Pa. Brick, tile, stucco, 2½ stories, 30x45 feet, slate or tile roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Office Building, Lancaster, Pa. Architects, Lawrie & Lappley, Second and Locust streets, Lancaster, Pa. Owners, Bogar & Son, North Sixth street, Lancaster, Pa. Frame, 1 story, 32x22 feet, shingle roof, pine floors, steam heat, electric light. Plans in progress.

Apartment, Evergreen street, Harrisburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owner, C. L. Conover, 111 Evergreen street, Harrisburg, Pa. Brick, 3 stories, 30x56 feet, composition roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Residence, Twenty-first and Market streets, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, G. P. Miller, Penbrook, Harrisburg, Pa. Brick, 2½ stories, 26x30 feet, asbestos shingle roof, hardwood and pine floors, hot water heat, electric light. Plans in progress.

Harris House (alts.), Third and Strawberry streets, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Mr. Stauffer, care of architect. General interior alterations. Plans in progress.

Residences (7), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Walter Zook, 311 North Queen street, Lancaster, Pa. Brick, stucco, 2½ stories, 22x28 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Owner will build.

Factory, West East street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Dudley Watch Co., care of architect. Brick, steel, 2 stories and basement, 40x120 feet, slag roof, pine floors, electric light, rolled steel sash, waterproofing. Low bidder, Herman Wohlsen, Woolworth Building, Lancaster, Pa.

Pennsylvania Contracts Awarded

Cottages (2), St. David's, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Paul Denckla Mills, St. David's, Pa. Hollow tile and stucco, 1½ stories, 22x22 feet, slate roof, oak and pine floors, electric lighting. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Mansion House, Robesonia, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Robesonia State Bank, Robesonia, Pa. General alterations, mill work, partitions, concrete, tile and hardwood floors, general interior alterations, bank fixtures, metal window guards. Contract awarded to J. H. Hollenbach, Robesonia, Pa.

Apartments (5) (alts. and add.), Hanover, Pa. Architect, R. E. Starr, Spooner Building, Harrisburg, Pa. Owners, Farmers' State Bank, Dr. L. S. Beard, Hanover, Pa. Brick, 2 stories, 20x60 feet, slag roof, yellow pine floors, vapor heat, electric light, iron stairs. Contract awarded to F. Robaugh, Hanover, Pa.

Residences (14), Race street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Charles Green, 352 College avenue, Lancaster, Pa. Brick, 2½ stories, 40x22 feet, slate roof, hardwood floors, hot air heating, electric lighting, tile work. Contract awarded to Ray Clark, 248 South Ann street, Lancaster, Pa.

Residences (2), Clifton Heights, Pa., $10,000. Architect, private plans. Owner, Howard Cornell, Clifton Heights, Pa. Frame and stucco, 2½ stories, 16x40 feet, shingle roof, oak and pine floors, metal lath, hot water heat, electric lighting. Contract awarded to Turnbull & Cornell, 20 South Eighteenth street, Philadelphia.

Club House, Belmont and Conshohocken avenues, Bala, Pa., $15,000. Architect, private plans. Owners, Bala Golf Club, on premises. Stone and steel, 1 story, 52x69 feet, slag roof, cement and pine floors, steam heat, electric light, tile work, iron work. Contract awarded to Turnbull & Cornell, 20 South Eighteenth street, Philadelphia.

Office and Mill Building, Ninth and McIlvain streets, Chester, Pa., $49,000. Architect, private plans. Owners, Irving Worsted Co., on premises. Brick and steel, 2 story, irregular size, 1 story, 64x100 feet, wing 64x32 feet, slag roof, maple floors, rolled steel sash, hollow metal skylights, iron stairs. Contract awarded to Chester Const. & Cont. Co., Chester, Pa.

New Jersey Construction News

Store and Office (add.), Montgomery and Hanover streets, Trenton. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Fitz Charles Dry Goods Co., on premises. Brick, 5 stories, 25x62 feet, slag roof, pine floors, electric light, metal lath, tile, marble and terrazzo work, hollow metal skylights, fire doors. Plans in progress.

Residence, Morrisville, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Edward Conly, Stacy Trent Hotel, Trenton, N. J. Brick, 2½ stories, 33x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Apartment House (alts. and add.), Princeton street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Samuel Hilton, Forst Richey Building, Trenton, N. J. Brick, 3 stories, 30x40 feet, slate roof, hardwood floors, steam heat, electric light. Plans in progress.

Residence, Hanover and Camden streets, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, H. W. Reynolds, State street, Trenton, N. J. Brick, 3 stories, 19x72 feet, slate and tin roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, J. McCann, 674 Rutherford street, Trenton, N. J. Frame, 2½ stories, 21x33 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Architect taking bids due February 17th. I. Harper Clayton, American Mechanics Bank Building; Charles Randall, 43 North Hermitage street; William J. Morris, 703 Rutherford street; W. Ehret and Ernest Rolinson, all of Trenton, N. J., and Joseph Theine, Mt. Rose and Rock Hill road, Princeton, N. J., are figuring.

Office Building (alts. and add.), 13 West State street, Trenton. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, John Stilanoo, care of architect. Brick, limestone, 4 stories, 23x60 feet, slag roof, hardwood floors, electric light, tile work, metal lath, rolled steel skylights. Architect taking bids due February 20th. S. W. Mather & Son, Greenwood and Canal streets; James Morris, South Broad and Hudson streets, and W. Ehret, all of Trenton, N. J., are figuring.

School (add.), Pennington Road, Ewing Township, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Ewing Township School Board, Ewing Township, N. J. Brick, 1 story and basement, 4 rooms, concrete foundations, slate and slag roof. Architect taking bids due February 21st. Thomas Day, Brunswick and Southroad; Harrison & Fisher, 222 South Oldey street; William Hicks, 1402 West State street; James Morris & Sons Co., South Broad and Hudson streets; S. W. Mather & Son, Greenwood and Canal streets; Pulchard & Garr, and Jackson Brothers, all of Trenton, and Dempsey and Hardey, Princeton, N. J., are figuring.

School, Parkway, Ewing Township, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Ewing Township School Board, Ewing Township, N. J. Brick, 1 story and basement, stone foundations, slag and slate roof. Architects taking bids due February 21 .Thomas Day & Sons, Brunswick and Southroad; Harrison & Fisher, 222 South Oldey street; William Hicks, 1402 West State street; James Morris, South Broad and Hudson streets; S. W. Mather & Son, Greenwood and Canal streets; Pulchard & Garr, and Jackson Brothers, Trenton, N. J., and Dempsey & Hardey, Princeton, N. J., are figuring.

Residence, Princeton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Dempsey & Hardey, on premises. Brick, 2 stories, 36x28 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Residences (4), Gladstone avenue, Trenton, N. J., $10,000. Architect, private plans. Owner, William Mussen, 1002 Hamilton street, Trenton, N. J. Brick, 2½ stories, 11x48 feet, slate and tin roof, electric light. Owner will build.

Highway Work, Salem, N. J., $254,021. Engineer, N. B. Keasbey, Salem, N. J. Owners, County of Salem, N. J. Reinforced concrete, 80,398 square yards. Low bidder: Benjamin J. Foster Co., Twentieth and Venango streets, Philadelphia.

Hotel, California avenue and Beach, Atlantic City, N. J., $1,500,000. Architect, Walter W. Ahlischleager, 65 East Huron street, Chi-

cago, Ill. Owner, care of Theodore W. Schimpf, Guarantee Trust Building, Atlantic City. Brick, steel, concrete, 15 stories, 700 rooms. Plans in progress. Too early for details.

Road Work, Cape May, N. J. Engineer, R. Fendall Smith, Marmord, N. J. Owners, Board of Chosen Freeholders, Irving Fitch, clerk, Cape May, N. J. Reinforced concrete. 34,946 square yards. Owner taking bids due February 21st.

New Shelters and Concourse, Jersey City Passenger Terminal, Jersey City, N. J. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Plaster and steel, 1 story, 112x19 feet, (3) 90x27 feet, (4) 17x577 feet, concourse, 30x256 feet, Barrett roof, concrete floors, metal lath, waterproofing, iron work, bond. Architect taking bids due February 16th.

Stores and Apartments, Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Eyre Williams & Charles Wright, Riverton, N. J. Brick, 3 stories, 112x75 feet, slag roof, hardwood and pine floors, hot water heat, electric lighting. Owners taking bids.

Hotel, Garage and Gasoline Service Station, Longport, N. J. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, John T. Walsh, care of architect. Brick, hollow tile, steel and stucco, 2½ stories, 30x60 feet, and 1 story, 22x24 feet, shingle roof, hardwood and composition floors, hot water heat, electric lighting, waterproofing. Plans in progress.

New Jersey Contracts Awarded

Factory, rear of 320-22 North Front street, Camden, N. J. Architect, Horace M. Hokanson, 1713 Sansom street, Philadelphia. Owners, Standard Tank & Seat Co., 314 North Front street, Camden, N. J. Reinforced concrete, 3 stories, slag roof, cement floors, metal lath, elevators, fire doors, rolled steel sash, vacuum heating, electric lighting. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Store and Dwelling, 437 Kaighn avenue. Camden, N. J., $18,000. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, D. Lifkowitz, on premises. Brick, cut stone and steel, 2 stories, 20x100 feet, slag roof, oak and pine floors, metal lath and ceilings, iron work, metal bulks, hot water heat, electric light, tile and marble work. Contract awarded to Potts Brothers & Cooperson, 129 North Eleventh street, Philadelphia.

Miscellaneous Construction News

Residence, Winston Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. A. Kent, Winston Salem, N. C. Brick and hollow tile, 2½ stories, 42x50 feet, garage in basement, slate or tile roof, oak floors, vapor heat, electric lighting, tile work. Plans about completed. Architect will take bids in one month.

Residence, Towson, Md. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, John Dever, Baltimore, Md. Frame, clapboard, 2½ stories, 22x39 feet, shingle roof, oak and pine floors, hot water or vapor heat, electric light, tile work. Plans in progress.

Miscellaneous Contracts Awarded

Residence, Fifth avenue and Seventy-first street, New York City, $500,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Alexander Hamilton Rice, New York City. Brick and Indiana limestone, 3 stories, 60x125 feet, slate roof, electric lighting, tile and marble work, oak floors. Contract awarded to John T. Brady & Co., 103 Park avenue, New York City.

Infirmary A and B Wing, United States Public Health Service Hospital, Oteen, N. C., $297,694. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Brick and steel, 3 stories, 217x56 feet, composition roof, cement, composition and pine floors, hollow tile, metal lath, safety treads, roof ventilators, dampproofing, iron work, floor hardener, steel doors (mechanical equipment and elevators separate bids). Contract awarded to Fanning & Quinn, Norfolk, Va.

Church, Brunswick, Md. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Mark's Parish Grace Episcopal Church, Brunswick, Md. Stone and steel, 2 stories and basement, 38x126 feet, slate roof, maple floors, metal lath, waterproof, bond, steam heat, electric light. Contract awarded to Charles R. Karns, Brunswick, Md.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 6, 1922. Sealed Proposals will be opened in this office at 3 P. M., March 7, 1922, for the construction, including mechanical equipment, of the United States Post Office at Charles Town, W. Va., in accordance with drawings and specifications, which may be obtained from the Custodian of the site at Charles Town, W. Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 104.)

surplus should stop to consider that our home consumption of meat decreased nearly 7 pounds per capita in 1921, mostly owing to unemployment and that if this decrease could be overcome, it would be worth more than a 35 per cent. increase in exports.

We talk glibly of giving billions of credits to foreign countries, to increase our farm exports. I wish to say with all responsibilty for the statement, that a billion dollars spent upon American railways will give more employment to our people, more advance to our industry, more assistance to our farmers, than twice that sum expended outside the frontiers of the United States—and there will be greater security for the investor.

Finally, I want to refer to the veritable witches cauldron being fed constantly with hates distilled from the misdeeds of railway promoters in the past, from the conflicts between the railways and the farmers, between the railways and their workmen. From all the confusion that arises from it we destroy our railways and destroy ourselves. With this Commission on one hand assuring honesty in finance, justice to the shipper and the railway investor, with the Railway Labor Board asuring justice to workers and, above all, with a great spirit of public service in our generation of railway managers, it is time to call off the witches and take some vision of our national situation if we are to pull ourselves out of this depression.

HEATING HOUSES OF VARIOUS WALL CONSTRUCTION

Wood Houses Are Economical to Heat as Well as to Build—How Concrete Block and Monolithic Walls May Be Made to Retain Heat and Keep Out Cold

THE many generations of popularity of wood houses in this country is not entirely due to their relative cheapness and ease of construction. It has always been believed that they were easier to keep warm. Recent scientific research work by a large construction company in northern Minnesota in co-operation with the American Society of Heating and Ventilating Engineers, shows that wood houses are the most economically heated of any type tested except one with double monolithic concrete walls insulated with oiled wood shavings—a type of construction hardly practicable for small dwelling houses.

The tests were conducted in buildings 8½x8½x8½ ft. (interior measurements) with nearly flat roofs, and having one door and one window. Each had a floor of concrete 6 in. thick laid directly on the ground. The roofs were made of 2x4-in. timbers, double sheathed with wood and overlaid with composition roofing, sealed to shut out wind and rain. The ceilings were of plaster board with the regular coatings of plaster.

The five buildings were heated by electric stoves and the amount of electricity consumed was measured. Enough current was supplied to keep the best constructed house at a temperature of 83 deg. F. The same amount of heat was supplied to all the houses and the temperatures of the various ones therefore showed which kinds of construction were the hardest to heat, or the most inefficient from the heating point of view.

Types of Construction Tested

House No. 1 consisted of a framework of 2x4-in. wood studding, sheathed on both sides by ¼-inch plain gypsum plasterboard and one thickness of building paper; stuccoed with cement plaster on the outside and faced with wood fibre plaster upon the plasterboard on the inside. Pieces of boards 4 in. wide were placed horizontally between the studding

at the height of 3½ ft. above the floor level in order to shorten the free air columns contained therein. This wall contained by far the least material per square foot of wall surface of any of the types. The cost of heating this building was $1.12 per month.

House No. 2 had a double-wall of pressed concrete blocks (hydrostone type M-24) dry mix, so shaped that these blocks have a partial integral bond of concrete formed by interlocking lugs. This type of wall has an uninterrupted vertical air space from floor to ceiling, and contains 1,048 cu. in. of concrete per square foot of wall surface. The cost of heating this building was $1.29 per month.

House No. 3 was a double monolith wall, each part of which is 4 in. thick and with a 4-in free air space between the parts. The object of this arrangement was to show the influence of uninterrupted convection currents within the wall. The mass of concrete used is 1,260 cu. in. for each square foot of wall surface. The cost of heating this building was $1.20 per month.

House No. 4 was a double wall of hollowed-out (trough shape) concrete blocks pressed with hollow sides facing each other and having a minimum space of about ¾in. between opposing rims, arranged to partly retard convection at every course. Convection is completely interrupted at a point half-way of the height of the wall by a layer of tar paper across the joint. These blocks are poured (not pressed) with a wet mix to insure a maximum density of concrete. The upper surface of the block as poured constitutes the exterior wall surface and is therefore highly resistant to rain by reason of the accumulation of laitance on the surface. There is no integral bond of concrete between the front and rear block. This wall contains 672 cu. in. of concrete per square foot of wall surface, or about half as much as No. 3. This house cost $1.39 per month to heat.

House No. 5 had a double monolith concrete wall of the same dimensions and arrangement as No. 3 except that the air space was filled with oiled wood shavings. This filling arrested convection and assured a dead-air insulation. The concrete was a dry mix in order to give the necessary strength with the least density, and was stuccoed on the outside with a cement gun to seal the pores. This wall contains the same amount of concrete per square foot of wall surface as No. 3—1,260 cu. in. This house cost 84 cents per month to heat.

The cost of heating was calculated from the amount of electricity actually used and the amount estimated to maintain a uniform temperature in each house of 70 deg. F. This was converted to an equivalent amount of coal at $10 per ton as burned in a heater of ordinary efficiency.

To apply the results to a six-room house the relative cost of heating would be about as follows: No. 1, $18.00; No. 2, $20.30; No. 3, $19.20; No. 4, $22.15; No. 5, $13.50 per month. Take the life of the house as 30 years and number of months per year heated as five and we have the heat cost as follows: No. 1, $2,700; No. 2, $3.100; No. 3, $2,880; No. 4, $3,350; No. 5, $2,010. In other words, the saving in fuel during a generation in the case of a wood house, with coal at $10 per ton, is from $180 to $650 over the other types except No. 5, which is materially more economical in heat saving.

The figures given throughout are estimates only for the purposes of rough comparison. The tests are being repeated this winter with more accurate heat-measuring instruments. The data given above is from a paper by L. A. Scipio, Pittsburgh, Pa., in the September, 1921, "Journal" of the American Society of Heating and Ventilating Engineers.

The most important fact brought out is the necessity of breaking up the air space between the double walls to prevent convection or circulation of the air in this space. Any fillings, or projections, that retard the circulation are helpful.

—*National Builder.*

Tunis & Genther, Architects, formerly of the Real Estate Trust Building, Philadelphia, will occupy their new office, 1423 Locust St., after March 1st.

The Western Waterproofing Co., has moved their office from Stephen Girard Building, Philadelphia, to Franklin Trust Building. Thos. F. Gibson is manager of the Philadelphia office.

The Magna Sand Company, 139 S. 3rd St., Philadelphia, has issued a very attractive booklet, "What You Can Do with Magna White Silica Sand." Architects, contractors and members of the building trade should have a copy of this booklet which contains valuable suggestions and data.

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVII, No. 8
February 22, 1922

Issued Weekly in the Interests or Architects, Structural Engineers, Contractors and the Material and Equipment Trades

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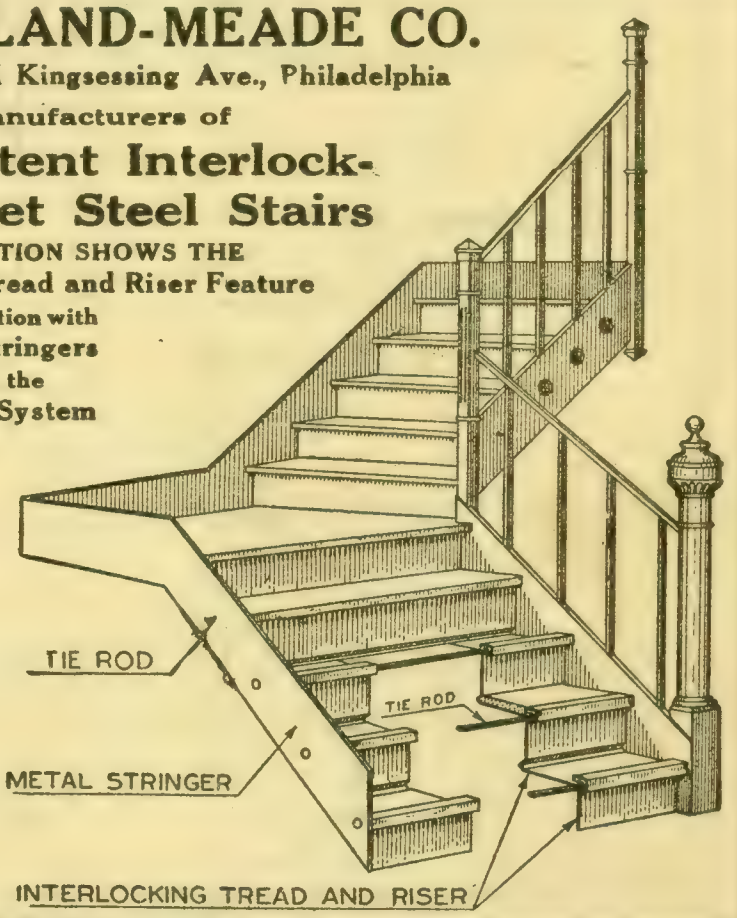
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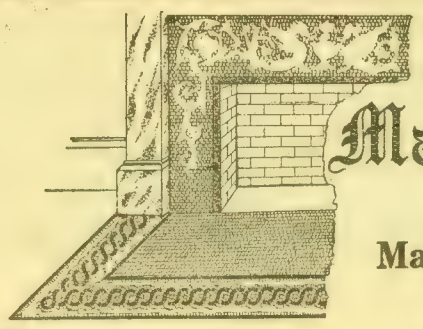


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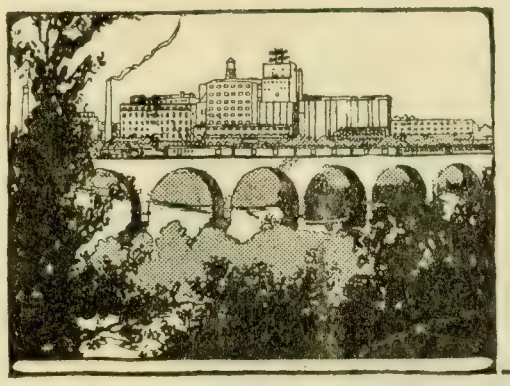
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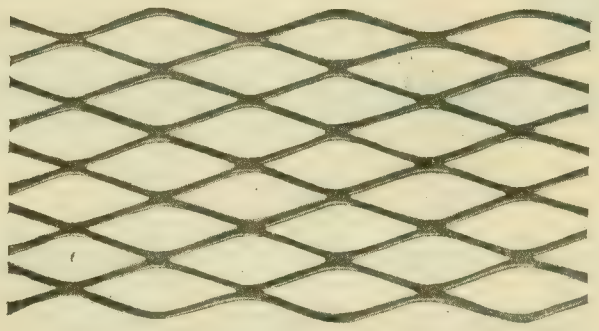
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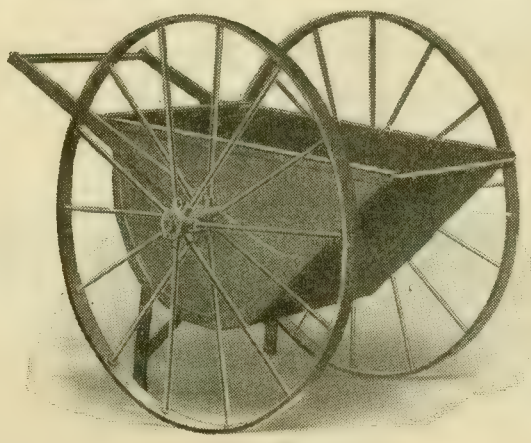
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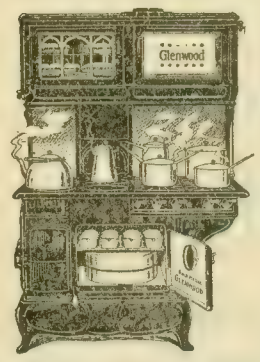
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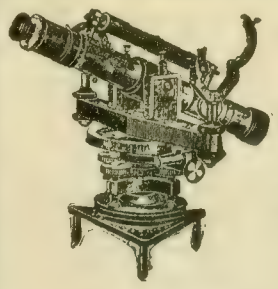
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As The Editor Sees It

THERE is a very alarming scarcity of skilled mechanics in the building trades. Few young men are entering apprenticeship in the building game. There are several contributory causes to this unfortunate situation and one of these causes is the much discussed problem of the seasonal character of the construction industry. Among many others who are trying to solve this problem is the David Lupton's Sons Co., of Philadelphia, who recently sent out a questionnaire through the medium of their monthly bulletin, bearing on this important question. The bulletin gives a summary of the reples.

Summary

1. On small jobs such as residences, winter construction is practicable only when the weather favors, or when materials are suitable and labor relations are exceptionally good.

2. Large construction can be carried on through the winter in the latitude of Chicago, Buffalo and Boston, by using special heating appliances and canvas protection.

3. The additional cost of such winter construction is from 3 to 10 or 15 per cent. of the cost of similar construction in summer, the lower figure prevailing where work is well organized.

4. Harmonious labor relations are essential. No formula can be written for this, but employers who have made a study of human nature have found the answer.

5. The winter mark-down should be in the neighborhood of five per cent; i. e., just enough to make the owner feel secure that he will not be out of pocket. Special conditions may call for larger mark-downs.

6. Average opinion is that materials and wages should each take approximately a 10 per cent. mark-down, based respectively on prices and hourly wages. The contractor should take a mark-down equal to about 2½ per cent. of the cost of the whole job.

7. The contractors should endeavor by steady employment to expand their permanent organization. As the plan gets going, the question of yearly wages earned will adjust itself.

8. When the plan has been accepted by the building industries, publicity will be needed to "sell" it to the public.

Their comments on the replies are:

1. The real object of equalizing building construction throughout the year is to reduce building costs. This will come:

(a) Because more uniform employment will reduce wage scales;

(b) Because the builders will be better able to keep and train men;

(c) Because the men will work better for a steady job and an employer whom they personally know than for a chance employer whom they will leave in two or three months;

(d) Because steady employment will attract the younger generation into the building trades, as is not now being done.

2. Recent conferences of building interests in Philadelphia have brought out the fact that in this city there is a serious shortage of skilled building artisans. The outside building trades, such as masonry, bricklaying, carpentering and roofing, fail to attract young men in sufficient numbers, owing to the hardships of the work and the irregularity of employment. Most of the outside building workmen in this locality are middle-aged. The same is probably more or less true elsewhere.

3. The greatest handicap of building is the seasonal employment it offers. To whatever extent this can be overcome, the building trades will again be attractive to young men.

4. Instead of taking a lower rate of pay in the winter months, labor might work an additional half hour per day for five days and perhaps two hours additional on Saturdays, the week's pay remaining the same.

5. It will not be necessary to have a formal agreement between the parties interested, provided it becomes a recognized trade custom to reduce prices, etc., in the winter. Neither will be it necessary to get all the material manufacturers,

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all contractors, or all labor into even an informal understanding. If the leading manufacturers of each kind of material used, a few leading contractors, and a sufficient number of artisans in the building trades will make a start, the rest will logically follow.

6. Such a start can be made locally wherever a sufficient number of contractors and artisans get together and secure the support of the material men. The contractors might be those best equipped for handling winter work, and the workmen might be either union or non-union. It would only be necessary to show them the advantage of working on a fair wage scale rather than being idle.

7. There can be no question that publicity will be needed. The various building organizations should be able to do effective work in this direction, and in addition each general contractor should see that the architects and leading owners of his locality are posted.

8. It might be to the advantage of the building trade to make special prices on large non-industrial buildings, which can be started at any time, in order to keep them from being held back for summer construction, when the industrial work is due.

To determine how important a factor the annual meeting is among industrial concerns, we are asking about 6,000 leading concerns, to whom this letter goes, to return a card stating their attitude and practice. We will report the replies next month.

Any comment which our readers may wish to send will be more than welcome, and we hope to make the pages of this bulletin an open forum for discussion of the plan. We expect shortly to get the opinions of the material manufacturers also. The subject is offered as suitable also for discussion by the various contractors' organizations, and we shall be glad to receive expressions of opinion from any such.

THE GUIDE has published a great many articles and opinions dealing with the "seasonal" problems which is of such vast importance to the Building Industry. "Now," says *Building Industry*:

"A problem to solve the problem of seasonal and cyclical unemployment has been put forward by Samuel Gompers, President of the American Federation of Labor, as labor's contribution to the efforts begun at the President's Conference. It is based largely on the suggested use of public credit for public purposes, inasmuch as Mr. Gompers believes it would be difficult even if subsidies were obtainable to set the wheels of private industry going in hard times.

"On the other hand, in countries like Great Britain and the United States, where the public credit is excellent, there is no practicable obstacle whatever to the undertakings during hard times of public enterprises of a productive character on a sufficient scale to stimulate all industry and reduce cyclical unemployment to a mere fraction of what it is today," he says. "The principle was repeatedly recognized by the Presidential Conference."

"The problem of unemployment can be solved," he says. "Seasonal unemployment can be almost eliminated. Cyclical unemployment is a social crime of the highest order, and no society which permits it to continue can expect to survive. The question is no longer open to debate. The problem of unemployment must be solved. There is no alternative.

"Labor lays down its proposals. It supports every constructive move, no matter where or by whom initiated. It brings forward, in addition to those moves, a program of proposals which will clear away the soical waste and wreckage casued by unemployment and put the nation on the road to full and final remedy.

"These proposals are before America. Labor demands that the problem be attacked with full vigor and determination, with fearlessness and an eye single to solution with justice."

Mr. Gompers suggests the use of public credits for land reclamation, water-power conservation, inland water-ways, public highways, forestry, housing and railroads.

The reclamation recommendations include the development and extension of reclamation of arid, swamp and overflow lands in accordance with the plans of the United States Reclamation Service, the Inland Waterways Commission and bills which have been laid before Congress.

Under waterpower development he lists the Muscle Shoals project, in which Henry Ford has become interested, the Long Sault Rapids of the St. Lawrence and other parts of the undeveloped water-power system, which he estimates at 200,000,000 horsepower.

Recommendations for the development of inland waterways includes the proposed St. Lawrence Ship Canal, the merits of which have been disputed; development of the Missisippi, which would call, he says, for the expenditure of hundreds of millions that would ultimately be returned in cash as well as benefits: the development of inland and coastwise canal systems; and the expenditure of $43,000,000 for rivers and harbors in 1923.

Mr. Gompers says that the principle of the Public Roads bill, enacted by Congress, appropriating $75,000,000 is sound, and recomends that bills before Congress calling for the expenditure of $100,000,000 additional in the coming year be passed.

Roads, trails, telephone lines and fire towers and other improvements in the National Forests should be built, says Mr. Gompers, who also suggests "reclamation by planting and otherwise of more than 80,000,000 acres of man-made desert, once rich forested land. "Forest devastation," he says, "is adding to this desert yearly some 3,000,000 acres—an area as large as the State of Connecticut."

Hundreds of thousands of men could be put to work by the extension of credits for housing he asserts, through the medium of a Federal home loan bank similar to the Federal Farm Loan Bank. Men could be employed on railroads or new construction, repairs and other outlay by the appropriation or $500,000,000, the sum originally urged by President Harding, it is suggested.

"The works proposed and the credits to be extended are along lines long undertaken by the American Government," says Mr. Gompers, "and are calculated to stimulate and promote the entire industry of the nation—beginning with con-

(Continued on Page 131)



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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (2), East Washington Lane, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Plans in progress. Architect will take bids in two weeks.

Residence (alts.), 533 West Hortter street, Philadelphia. Architects, Stuckert Co., Crozer Building, Philadelphia. Owner, Robert Crane, on premises. Brick, cut stone, mill work, sheet metal work, carpentry, terrazzo or composition floors (heating, painting, lighting and glazing reserved), iron and steel work. Architect taking bids. F. B. Davis & Son, Inc., 240 North Sixteenth street, and William C. Wright, 22 Harvey street, are figuring.

Apartment House, Sixty-third and Catharine streets, Philadelphia. Architect, Benjamin Brown, Denckla Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 18x70 feet, slate roof, hardwood floors, fireproof, hot water heat, electric lighting. Architect taking bids due February 25th. Acme Const. Co., 2025 North Sixty-second street, are figuring.

Building (alts.), 446 West York street, Philadelphia. Architect, Benjamin Brown, Denckla Building, Philadelphia. Owner, Charles Hanapolsky, Fifth and York streets. Brick, carpentry, mill work, plastering, demolition, oak floors, hot water heat, electric light, plumbing, tile and marble and iron work. Owner taking bids due February 25th. Pierce Henon Co., Juniper and Pine streets, figuring.

Residence, Chestnut Hill, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 26x40 feet, shingle roof, oak and pine floors, hot water heat, electric lighting. Bids due February 24th. William J. Gruhler Co., 219 High street, figuring.

Signal Towers (5), Arch, Girard avenue, York street, Torresdale avenue and Bridge street. **Remote Control Houses (5)**, Arch street, Girard avenue, Berks street, and (2) Tioga street, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Steel construction, wood roof and sides, (5) 13x10 feet and (5) 7x7 feet, granolithic floors, painting, glazing, hardware, bond, steel stairs. Owners taking bids due February 28th. H. E. Baton, 1713 Sansom street; Monaghan & Losse, Inc., 3016 Chestnut street; George H. Evans, Inc., 109 North Thirteenth street; Robert E. Lamb Co., 843 North Nineteenth street; George Const. Co., Stock Exchange Building, and Connor & Ley, 3621 North Fifth street, are figuring.

Church (add.), 235-37 West Wyoming avenue, Philadelphia, $4,000. Architect, private plans. Owner, Rev. B. T. M. Tahl, 237 West Wyoming avenue, Philadelphia. Brick 2 stories, 12x12 feet and 44x60 feet, steam heating, electric lighting. Owner will build.

Residence and Garage, Fifty-fourth and Wynnefield avenue, Philadelphia. Architect, Thomas B. Lippincott, 10 South Eighteenth street, Philadelphia. Owner, Isaac Levin, Bulletin Building, Philadelphia. Hollow tile and stucco, 2½ stories, 34x44 feet, and 1 story, 20x22 feet, tile roof, hardwood floors, hot water heating, electric lighting, tile work, brick terrace, macadam roads. Revised plans in progress.

Residence and Garage, Queen Lane Station, Philadelphia, $35,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, name withheld. Stone, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Two-Family Houses (8), Queen Lane Station, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 17x60 feet, tile and slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Manufacturing Plant, Twenty-first and Hunting Park avenue, Philadelphia. Architect, F. E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Hensel Colladay Co., Twelfth and Wood streets, Philadelphia. Concrete, steel, brick, stone and terra cotta. Various buildings, various sizes. Preliminary plans in progress. Too early for details.

Store Building, 1229 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Goldberg Brothers, 614 Market street, Philadelphia. Artificial stone front, brick, steel and terra cotta. Plans in progress.

Sherwood Exchange (add.), Fifty-sixth and Chestnut streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., 1700 Parkway, Philadelphia. Brick and granite, 2 stories. Plans in progress.

Residence and Garage, Southwest Corner Lincoln and McCallum streets. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue. Stone, 2½ stories, 20x50 feet, slate roof, tile and marble work. Plans in progress.

Factory Building, Rising Sun avenue, between Knorr and Rockland streets. Architects, Ballinger Co., Twelfth and Chestnut streets. Owners, Ardross Worsted Co., Bridge and Charles streets. Revised plans in progress.

Junior High School, Twenty-fourth and Snyder avenue, Philadelphia, $800,000. Architect, private plans. Owners, Board of Education, J. D. Cassell, Nineteenth above Chestnut street. Brick, stone, steel and granite. Plans completed. Owners are ready for bids.

Residence, Roxborough, Philadelphia. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, name withheld. Stone and hollow tile and stucco, 2½ stories, 35x27 feet, slate roof, oak and pine floors, hot water heat, electric lighting, tile work. Plans in progress. Will be ready for bids in ten days.



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Store (alts. and add.), 5945 Market street, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, name withheld. Terra cotta front, brick work, 3 stories, hardwood floors, tile and marble work, bronze bulks. Plans in progress.

Residence (alts. and add.), 1614 Spruce street, Philadelphia. Owner, W. Wallace Fritz, 1600 Summer street, Philadelphia. Brick, 3 stories, 19x73 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work. Owner will take bids in one month.

Hospital (alts.), 808-10 North Seventh street. Architects, Clark & Dudnick, 23 South Sixteenth street, Philadelphia. Consulting engineers, Causbey Eng. Co., 1011 Chestnut street. Owners, Northern Liberties Hospital, on premises. Engineers taking bids on electrical work due as soon as possible.

Paper Box Factory (add.), 1432 North Randolph street, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Peerless Paper Box Mfg. Co., on premises. Brick, terra cotta and steel, 2 stories, 48x54 feet, slag roof, maple floors, metal lath, demolition, rolled steel sash (heating, lighting and plumbing reserved). Architects taking bids due February 27th. H. H. Wehmeyer, 509 West Cumberland street: George H. Evans, Inc., 109 North Thirteenth street; A. D. Gerber, 229 Sansom street; Robert E. Lamb Co., 843 North Nineteenth street; F. W. Van Loon, Perry Building; F. A. Havens Co., 845 North Nineteenth street; H. E. Baton, 1713 Sansom street, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Residence and Garage, St. Martin's, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Mrs. Henry Bains, Jr., Haverford, Pa. Brick, 2½ stories, 102x50 feet, and 1½ stories, 44x25 feet, slate roof, oak and pine floors, tile work (heating, lighting and plumbing reserved), iron work. Architects taking bids due February 24th. Stokes Brothers, 6723 Musgrave street; Specht & Sperry, Heed Building; William J. Gruhler Co., 219 High street; William R. Dougherty, 1610 Sansom street; John E. Kearney, 34 South Seventeenth street, and Albert Zellfelder, 151 South Broad street, are figuring.

Residence, Sixty-sixth and Sherwood road, Overbrook, Philadelphia. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, R. C. Hassrick, Land Title Building, Philadelphia. Architects taking bids due March 2nd at noon. Samuel T. Atherholt, Narberth, Pa.; W. D. Smedley, Narberth, Pa.; Charles C. Pace, Merion, Pa.; Clarence L. Terry, Highland Park, Delaware County, Pa., and A. C. Shand, Jr., Commercial Trust Building, Philadelphia, figuring.

Double Quarters for Officers (2) and Double Quarters for Non-Commissioned Officers, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, Office of Constructing Quartermaster, Frankford Arsenal, Philadelphia. Brick, steel, frame and stone, 1 story, 29x27 feet and 20x26 feet, tin and slate roof, pine floors, metal lath, iron work, steam heat, electric light, tile work. Owners taking bids due March 8th. William R. Dougherty, 1610 Sansom street, Philadelphia; W. W. Anstine, 1218 Filbert street; George H. Evans, Inc., 109 North Thirteenth street; Monaghan & Losse, Inc., 3016 Chestnut street, and E. E. Hollenback, Inc., 1804 Brandywine street, are figuring.

Sales and Service Building, 1155-57 South Broad street, Philadelphia. Architect, Robert W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Joseph A. Cunningham, on premises. Brick, cut stone and concrete, 2 stories, 46x52 feet, slag roof, composition floors, roof ventilators (heating, plumbing and lighting reserved), architectural terra cotta. Architect taking bids due February 23rd. Conneen Const. Co., 10 South Eighteenth street; Graham & Wells, 3649 Filbert street; J. B. R. Miller, 538 North Fifty-third street; Pierce Henon Co., Juniper and Pine streets; Charles R. Davis & Son, 321 South Eleventh street; Monaghan & Losse, Inc., 3016 Chestnut street, are figuring.

Garage, 7151 Germantown avenue, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Mrs. Robert L. Barr, on premises. Brick, 1 story, 101x16 feet, slag roof, cement floors, electric light (heat reserved). Architect taking bids due February 23rd. Ketcham & McQuade, 1029 Brown street; John Schnabel, Inc., Denckla Building; Joseph E. Foster, 806 Walnut street; H. Sweger, 4528 North Uber street, and Martindale Brumby Co., 10 South Eighteenth street, are figuring.

Almshouse and Stable, Shawmont avenue, Roxboro, Philadelphia. Architect, Herman Miller, 1420 Chestnut street, Philadelphia. Owners, Overseers of the Poor, on premises. Stone, 2 stories, 28x89 feet, slate and tile roof, pine floors, steam heat, electric light, tile work, iron work. Architect taking bids due February 24th. C. C. Edelman, 1627 Sansom street, is figuring.

Boiler Stoker and Blower Foundations, 1136 North American street. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Bloch Go-Cart Co., on premises. Brick and steel, 1 story, 40x24 feet and 12x14 feet, Carey built-up roof, cement floors, iron work, floor hardener, bond, rolled steel sash. Architect taking bids due February 23rd. John Schnabel, Inc., Denckla Building; H. H. Burrell, 206 South Quince street; H. E. Baton, 1713 Sansom street; Hughes Foulkrod Co., Commonwealth Building; Cramp & Co., Denckla Building, and John N. Gill & Co., Otis Building, are figuring. Bids due 11 A. M.

Lodge Hall, 2850 Frankford avenue, Philadelphia. Architect, Carl F. Otto, 5802 North Fifth street, Philadelphia. Owners, Ioska Tribe, I. O. R. M., No. 379, on premises. Brick and steel, 2 stories, 123x57 feet, slag roof, mineral-composition and cement floors, metal lath, roof ventilators, metal ceilings, waterproofing and dampproofing, kalamein doors, vapor vacuum heating, electric lighting. Architect taking bids. Wills Bill Co., 1706 Sansom street; Ketcham & McQuade, 1029 Brown street; Robert Beatty & Brother, 2321 East Fletcher street, and F. W. Van Loon, Perry Building, are figuring.

Building (alts.), 662 North Sixteenth street. Architect, Frank V. Nickels, 225 South Sydenham street. Owner, name withheld. Carpentry, mill work, plastering, stone work, painting, glazing (heating, lighting and plumbing reserved). Architect taking bids due February 23rd. Pierce Henon Co., Juniper and Pine streets, are figuring.

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Ridge avenue and Wallace street. Architect, H. B. Weldon, 10 South Eighteenth street. Owner, Louis J. Kolb, care of Agent H. T. Saunders, 31 South Eighteenth street. Brick and steel, 1 story, 260x124 feet. Agent taking bids due as soon as possible. Barclay White Co., 1713 Sansom street; John N. Gill Co., Otis Building; H. P. Werner Co., 3243 Germantown avenue; Martindale Brumby Co., 10 South Eighteenth street; George and A. Glenn Co., Tenth and Columbia avenue; Monaghan & Losse, Inc., 3016 Chestnut street; Smith-Hardican Co., 1606 Cherry street; William G. Uhlers Sons, 1909 McKean street; Hughes Foulkrod Co., Commonwealth Building; Potts Brothers & Cooperson, 129 North Eleventh street; J. Y. Loux, Fifteenth and Hunting Park avenue, and George E. Gross, 1623 Ranstead street, are figuring.

Warehouse, Fifty-fourth and Pennsgrove streets, Philadelphia. Architect, J. S. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owners, Jacobs Brothers, 1212 North Fifty-second street, Philadelphia. Brick, mill construction, 2 stories, 54x73 feet, slag roof, cement and pine floors, elevators, electric lighting. Owners taking bids. J. D. Fisher, 5424 Thompson street; John T. Welsh, Bulletin Building, are figuring.

Recreation Centre, Twenty-sixth and Master streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, City of Philadelphia, Department of Public Welfare, B. H. Warburton, Director, Bureau of Recreation, 595 City Hall, Philadelphia. Concrete coping and gutter, cement concrete footway and furnishing and placing curb. Owners taking bids due February 27th at noon. George H. Evans, Inc., 109 North Thirteenth street, are figuring.

Miscellaneous Work, Philadelphia. Owners, Bureau of Surveys, Department of Public Works, 216 City Hall, Philadelphia. Branch sewers, main sewers, elevator screens, pumping station at Mingo Creek, Schuylkill River, west bank, electric wiring, heating equipment, rolled steel sash and doors, painting, filing (wood and metal) cases. Owners taking bids due March 7th at noon. Inquire Room 416, City Hall.

Store (1) and Residences (10), C street and Boulevard, $6,000 each. Architect, Carl F. Otto, 5802 North Fifth street. Owner, P. J. McFarland, 2408 East Allegheny avenue. Brick, 2 stories, (1) 18x42 feet and (10) 16x32 feet, slag roof, hot water heat, electric light, hardwood floors. Owner is taking sub-bids.

Residences and Garages (31), Fifty-seventh and Florence avenue. Architect, Carl F. Otto, 5802 North Fifth street, Philadelphia. Owners, Kenin & Shapiro, 5850 Market street, Philadelphia. Brick, 2 stories, 16x44 feet, (2) 19x44 feet, slag and slate roof, hot water heat, hardwood floors, electric light, tile work. Owners are taking sub-bids.

Residences (53), Haddington street and Fifty-sixth street, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Charles E. Biddle, Fifty-second and Baltimore avenue, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hardwood floors, hot water heat, electric lighting, porches. Plans completed. Owner will take sub-bids.

Residences and Garages, Sixty-first and Lebanon avenue, $60,800. Architect, private plans. Owner, John N. McGarvey, Sixty-first and Clifford streets, Philadelphia. Brick, 2 stories, 16x33 feet, slag and slate roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (28), Castor road and Pratt street, Philadelphia. Architect, Carl F. Otto, 5802 North Fifth street, Philadelphia. Owner, Harry R. Meyer, 2035 East Allegheny avenue, Philadelphia. Stone and brick, 2½ stories, L shaped, 16x47 feet front, 20x47 feet rear, slate, slag and tile roof, hardwood floors, hot water heat, electric lighting. Plans completed. Owner ready for sub-bids.

Apartments and Stores (8), Garages (16), Chester avenue, Fifty-second to Paxson street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Steltz & Malony, 1208 Chestnut street, Philadelphia. Brick and steel, 3 stories, 20x46 feet, slag and tile roof, oak and pine floors, metal lath, metal bulks, hot water heat, electric light, tile and marble work. Owners are taking sub-bids.

Pumping Station, Roxboro, Philadelphia. Architect, private plans. Owners, Bureau of Water, Department of Public Works, 216 City Hall. Lowest bids submitted by Kober Const. Co., 34 South Seventeenth street, Philadelphia, $15,109; George H. Evans, Inc., 109 North Thirteenth street, $15,440.

Culvert, Sixth and Allegheny avenue, Philadelphia. Owners, Bureau of Water, Department of City Property, Philadelphia. Lowest bidders: J. J. McHugh, 1617 Race street, Philadelphia, unit prices, $2.60, $15.00, $30.00, $.04, $20.00.

Hall and Store, 556-558 Rising Sun avenue, Philadelphia, $14,000. Architect, private plans. Owner, Fred Piccarie, 560 Rising Sun avenue, Philadelphia. Brick, 2 stories, 35x97 feet, slag roof, oak and yellow pine floors, steam heat, electric light. Owner will build.

Residence, Northwest Corner Carpenter street and Wayne avenue, $10,000. Architect, private plans. Owner, Daniel Connor, Haines street and Belfield avenue, Philadelphia. Stone, 3 stories, 28x43 feet and 28x13 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Garage, 510-12-14 Pine street, Philadelphia, $12,000. Architect, private plans. Owner, Adolph Mark, 721 Walnut street, Philadelphia. Brick, 2 stories, 62x60 feet and 62x25 feet, slag roof, cement floors, steam heat, electric light. Owner will build.

Stores (2) and Two-Family Residence, Thirty-third and Powelton avenue, $9,000. Architect, private plans. Owner, Edna H. Faulkner, 14 North Paxson street, Philadelphia. Brick, 1 story, 33½x32 feet, slag roof, yellow pine floors, electric light, general interior alterations. Owner will build.

Residences (22), North side Hortter street, East of Germantown avenue, $4,500 each. Architect, private plans. Owner, Eugene Raymond, 1416 South Penn Square, Philadelphia. Brick, 2 stories, 15x28 feet and 11x10 feet 8 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence, 8123 Chelwynde avenue, $2,500. Architect, private plans. Owner, Charles Boding, 8121 Chelwynde avenue, Philadelphia. Brick, 2 stories, 16x32 feet and 16x8 feet,

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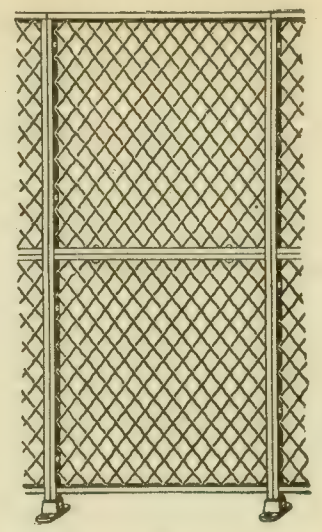
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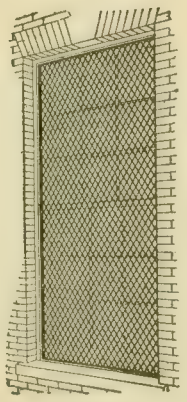
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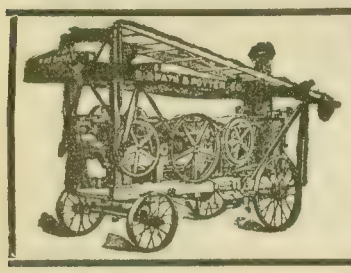
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Store and Apartments, Frankford avenue and Gillingham street, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Frank G. Schuler, 4536 Frankford avenue, Philadelphia. Architects taking bids, due February 27th. Geo. Rimer, 4842 Hawthorne street; John Fotheringham, Castor Road and Arrott street; Ruch Bros., 1016 Harrison street; D. A. McCleland Const. Co., Drexel Building, and Thos. C. Trafford, 1613 Sansom street, are figuring.

Supplies, Board of Education, Philadelphia. Owners, Board of Education, Wm. Dick, Secretary, Nineteenth above Chestnut street, Philadelphia. Playground supplies, stage curtain, hardware, construction paper. Owners taking bids, due March 9th at noon.

Residences (33) Seventh street, Chew and Grange streets, $132,400. Architect, private plans. Owners, O. & A. Steinacker, 3950 North Fifth street, Philadelphia. Brick, 2 stories, 16x40 feet and 15x29 feet, 11x11 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Hall Building, 1323-25 North Broad street, Philadelphia. Architect not yet selected. Owners, Central Odd Fellows' Hall Association, care of Linwood L. Hallman, Reformed Church Building, Philadelphia. General alterations and rear addition. Work contemplated.

Residence and Store (alts. and add.), 1112 South street, $4,000. Architect, private plans. Owner, P. Karsotsky, on premises. Brick, 2 story add., 12x43 feet, electric lighting. Contract awarded to A. Goldberg, 2419 South Fairhill streeet, Philadelphia.

Residence (alts.) to Apartments, 4030 Baring street. Architect, J. S. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owner, D. Bertram Basford, 1420 Chestnut street. General alterations, electric work, hardwood floors, plumbing. Ready for bids.

Residence (alts. and add.), 1920 Arch street, Philadelphia. Architect, Wm. F. B. Koelle, Otis Building, Philadelphia. Owner's name withheld. Limestone and stucco, electric lighting, hot water heat, hardwood floors. Plans in progress. Will be ready for bids in a month.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residences (4), Germantown avenue, South of Chestnut avenue. Architects, Mellor, Meigs & Howe, 205 South Juniper street. Owner, C. Bradford Fraley, 20 West Chestnut avenue, Philadelphia. Brick, 3 stories, 20x37 feet and 15x21 feet, slate roof, hot water heat, electric light, oak and pine floors, marble work. Contract awarded to E. E. Ludwick, 1619 Chestnut street.

Residence, Oak Lane, Philadelphia, $25,000. Architect, E. A. Yeo, 225 South Sydenham street. Owner, Alexander C. Maurer, 3233 North Fifteenth street. Stone, 2½ stories, 34x56 feet, slate roof, oak and pine floors, hot water heat, electric lighting, tile work. Contract awarded to Turnbull & Cornell, 20 South Eighteenth street.

Residence, Chestnut Hill, Phila. Architects, Mellor, Meigs & Howe, 205 South Quince street, Philadelphia. Owners, Mrs. James B. Howe and Mrs. Joseph C. Fraley, care of architects. Brick and plaster, 2½ stories, 64x26 feet, wing 20x24 feet, shingle roof, oak and pine floors, metal lath, iron work, bond, terrazzo work. Contract awarded to R. C. Ballinger Co., 925 Walnut street.

First Deck Offices, Chestnut Street, Pier 4, South Delaware River, Philadelphia. Owners, Bureau of Wharves, Docks and Ferries, Bourse Building. Brick, cut stone and steel, 1 story, 480x70 feet, standard Trinidad roof, granolithic floors, metal lath, iron stairs, bond, tile work. Contract awarded to George H. Evans, Inc., 109 North Thirteenth street, who is taking sub-bids, $36,740.

Sales and Service Building, 5931-35 North Broad street. Architect, M. H. Dickinson, 6151 Market street. Owners, Hexfer & Kahn, Morris Building, Philadelphia. Brick, cut stone and steel, 1 story, 237x40 feet, slag roof, cement and pine floors, metal lath, iron work, rolled steel sash, steam heat, electric light, terra cotta. Contract awarded to Harry Gill, Jr., 2514 Germantown avenue, Philadelphia.

Building, Glenwood avenue and Oxford street. Architect, LeRoy B. Rothschild, 1225 Sansom street. Owner, J. C. Kahn, Morris Building, Philadelphia. Concrete and brick, 2 stories, 310x125 feet, slag roof, cement floors, demolition (heating, electric work, plumbing and elevators reserved), hollow metal sash and skylights, tin covered doors. Contract awarded to Nelson Pedley Const. Co., Inc., 1615 Spruce street, Philadelphia.

Building, Northwest Corner Forty-third and Lancaster avenue, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Sheplan, Sabol & Palmer, Fifteenth and Wallace streets. Reinforced concrete and brick, 4 stories, 153x154x127 feet, stone foundations, asbestos asphalt roof, oak and cement floors, tile and marble work, rolled steel sash and skylights, safety treads, roof ventilators, tin covered doors, waterproofing and dampproofing, bond, metal bulks, ornamental iron work. Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

Loft Building, 138 North Seventh street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, John P. Smith, 148 North Seventh street. Brick, cut stone and steel, 2 stories, 15x49 feet, Warren-Ehret roof, maple floors, demolitioin (heating, lighting, plumbing reserved), tile work, rolled steel sash, bond, metal bulks. Contract awarded to Frank Shuler, Norristown, Pa.

Residence (alts.), 4417 Spruce street, Philadelphia, $8,000. Architect, Robert Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, H. Donaldson, on premises. Brick, plumbing, plastering, tin roof, painting, hardwood floors, electric work, tile and marble

work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Building (alts.), 408 North Third street, Philadelphia. Architect, private plans. Owners, Armstrong Cork Co., on premises. Interior alterations, carpentry, mill work, electric work, hardware, painting, plumbing. Contract awarded to Turnbull & Cornell, 20 South Eighteenth street.

Factory Building, Thirty-second and Cherry streets, Philadelphia. Architect, private plans. Owners, H. T. Paiste Co., on premises. Brick, cut stone and steel, 4 stories and basement, 104x108 feet, slag roof, asphalt floors, elevators, steam heat, electric light, tile work, rolled steel sash, fire doors, iron work. Contract awarded to Turner Const. Co., 1713 Sansom street.

Garage, Graver's Lane, Chestnut Hill, Philadelphia. Architects, Mellor, Meigs & Howe, 203 South Juniper street. Owner, Harry C. Barclay, on premises. Stone, 1½ stories, 50x32 feet, slate roof, cement floors, hot water heat, electric lighting. Contract awarded to H. H. Burrell, 206 South Quince street.

Service Station (alts.), Southeast Corner Thirty-first and Thompson streets, $5,000. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. General alterations, cement floors, carpentry, mill work. Owner, name withheld. Contract awarded to LeRoy K. Smith, 4007 Chester avenue, Philadelphia.

Residence, West side Navahoe, North of Willow Grove avenue, $15,000. Architect, private plans. Owner, J. Wesley McWilliams, Crozer Building, Philadelphia. Stone, 3 and 2 stories, 26x42½ feet, 12x17½ feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to H. A. Hamilton, Broad and Somerville avenue.

Garage, 1024-26-28 Cantrell street, Philadelphia, $5,000. Architect, private plans. Owner, Luigi Sussani, 1015 Tree street, Philadelphia. Brick, 1 story, 42x56 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Michele Parisano, 1338 South Eighth street, Philadelphia.

Residence and Store (add. and alts.), 1027 South street, $4,500. Architect, private plans. Owner, Benjamin Lechtic, on premises. Brick, 1 story, 12x12 feet, slag roof, yellow pine floors, electric light. Contract awarded to L. Rubin, 421 Jackson street, Philadelphia.

Office (add. and alts.), 5604-06 Germantown avenue, $4,000. Architect, private plans. Owner, Henry W. Fletcher, 5539 Greene street, Philadelphia. Brick, 1 story, 38x50 feet, slag roof, yellow pine floors, electric light. Contract awarded to F. Elvidge & Son, 5522 Germantown avenue, Philadelphia.

Bottling Plant, 999 North Marshall street, Philadelphia, $5,000. Architect, private plans. Owner, Annie Liebovitz, 1002 North Sixth street, Philadelphia. Brick, 2 stories, 17 feet 7 inches x 65 feet, slag roof, cement floors, electric light. Contract awarded to Morris Yorknitz, 1202 North Seventh street, Philadelphia.

Moving Picture Theatre, Northeast Corner Sixth and Pike streets, $4,800. Architect, private plans. Owner, Louis Hersh, 913 West Girard avenue, Philadelphia. Brick, 1 story, cement work, electric light. Contract awarded to Jack Trinchowsky, 242 Morris street, Philadelphia.

Store and Residence (add.), 132 North Fifty-second street, Philadelphia, $5,000. Architect, private plans. Owner, M. J. Lenihan, 134 North Fifth street, Philadelphia. Brick, 2 stories, 16x24 feet and 16x8 feet, slag roof, yellow pine floors. Contract awarded to F. C. Borel, Jr., 5425 Summer street, Philadelphia.

Garage, 6391 Drexel road, Philadelphia, $4,000. Architect, private plans. Owner, William M. P. Quinn, on premises. Stone, 2 stories, 24x21 feet, slate roof, cement floors, hot water heat, electric light. Contract awarded to Milton W. Young, 2012 Upland Way, Philadelphia.

Garage and Storage Building, Mermaid Lane, East of Norwood street, $3,800. Architect, private plans. Owner, Peter Marcitina, 131 East Mermaid Lane, Philadelphia. Brick, 2 stories, 89x22 feet, slag roof, cement floors, electric light. Contract awarded to Wolverton & Co., 222 East Willow Grove avenue.

Shop and Office, 2201-03 South Felton street, Philadelphia, $3,500. Architect, private plans. Owner, Charles H. Adams, on premises. Brick, 2 stories, 16x60 feet, slag roof, yellow pine floors, steam heat, electric light. Contract awarded to Oliver C. Greenway, Eighty-second and Chelwynde avenue.

Residence and Store (add. and alts.), 3081 Kensington avenue, $2,900. Architect, private plans. Owner, E. Irvin Shuttleworth, 3072 Kensington avenue, Philadelphia. Brick, 1 story, 3x14 feet, slag roof, yellow pine floors, electric light. Contract awarded to N. J. Wilkie, 1152 East Sedgley avenue, Philadelphia.

Foundry (add. and alts.), 1521-25 North Bodine street, $2,800. Architect, private plans. Owner, John A. Welsh, 1507 North Lawrence street, Philadelphia. Brick, 1 story, 34x45 feet, slag roof, yellow pine floors. Contract awarded to Frank A. Gartner, 1516 Frankford avenue.

Residence (add. and alts.), 4914 Warrington avenue, $2,200. Architect, private plans. Owner, Della Phillips, on premises. Brick, 2 stories; 16x14 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to W. G. Kennedy, 1667 South Yewdall street, Philadelphia.

Residence and Store (alts. and add.), 3226 West York street, $2,000. Architect, private plans. Owner, John Bauman, on premises. General interior alterations and shed addition. Contract awarded to Daniel Josephson, 5405 Walnut street, Philadelphia.

Residence and Store (add. and alts.), 2132 South Seventh street, $2,300. Architect, private plans. Owner, Henry Korn, 2014 South Seventh street, Philadelphia. Brick, second and third story adds., 12x17 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to Philip Savar, 718 Snyder avenue, Philadelphia.

Tenement (alts.), 206 North Thirty-fourth street, Philadelphia, $2,000. Architect, private plans. Owner, Mary H. Smith, Powelton Apartments, Thirty-fifth and Powelton avenue. General interior alterations. Contract awarded to M. A. Gebhard, 5301 Webster street, Philadelphia.

Playground, Tenth, Rodman, Eleventh and Lombard streets, $3,000. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, Philadelphia. Bond, demolition, sidewalks, excavating, grading, surfacing, shelter, 1 story, 45x45 feet, slag roof, cement floors, sheet metal work, metal lath. Contract awarded to Bowden Const. Co., 1713 Sansom street.

Building (alts.), 1512 Walnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Victory Realty Co., on premises. Brick, cut stone, carpentry, millwork, painting, glazing, pine floors, dampproofing, iron work, bond, kalamein doors, rolled steel skylights, tile and marble work, demolition (plumbing, heating, lighting and elevator reserved). Contract awarded to Wm. R. Dougherty, 1610 Sansom street, Philadelphia.

Store and Apartment (fire repairs), 5321 Germantown avenue, $8,000. Architect, private plans. Owner, N. Marfer, 5325 Germantown avenue. General interior work. Contract awarded to M. H. Grebe, 8438 Germantown avenue.

Store and Storage (add. and alts.), 3334 North Broad street, $7,000. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Bernard Cohen, 130 South Fourth street, Philadelphia. Brick, 1 story, 25x124 feet and 6x42 feet, slag roof, oak and yellow pine floors. Contract awarded to S. H. Levin, 1631 South Fifth street, Philadelphia.

Garage, 1839-43 East Orleans street, Philadelphia, $5,000. Architect, private plans. Owner, Martin A. Goetz, 1909 East Orleans street, Philadelphia. Brick, 2 stories, 20x102 feet, slag roof, cement floors, steam heat. Contract awarded to Roland Bale, Jr., 1849 East Ontario street, Philadelphia.

Residence and Store (add.), southeast corner of Eleventh and Somers streets, $3,000. Architect, private plans. Owner, David Gold, on premises. Brick, 1 story, 14x19 feet, slag roof, yellow pine floors. Contract awarded to N. Epstein, 2221 North Franklin street, Philadelphia.

Residence and Store (add.), 5454 North Fifth street, Philadelphia, $2,300. Architect, private plans. Owner, S. Salas, on premises. Brick, 2 and 1 stories, 16x14 feet and 3x8 feet, slag roof, yellow pine floors, electric light. Contract awarded to Cook & Ball, 4361 North Fourth street, Philadelphia.

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Knitting Mill, Auburn, Pa. Architect, W. D. Hill, Pottsville, Pa. Owners, Artistic Knitting Mills, Inc., Auburn, Pa. Brick, mill construction, 54x90 feet, slag roof, maple floors, vapor heat, electric light, metal sash, fan ventilators. Architect taking bids due March 15th.

Operation of Twin Residences, Single Residences and Bungalows, Kirklyn, Pa. Architect, Benjamin Brown, Denckla Building, Philadelphia. Owner, name withheld. Stone, hollow tile and stucco, 1½ and 2½ stories, tile, slate and slag roofs, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans completed. Will be ready for bids in a few days.

Masonic Temple, Danville, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Masonic Hall Association, W. C. Pursell, president, Danville, Pa. Brick, 3 stories and basement, 55x85 feet. Preliminary plans in progress.

Grade School, Abington Township, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Townshsip, care of Charles M. Doll, McKinley, Pa. Stone, 2 stories and basement. Preliminary plans in progress.

Residence, Bethlehem, Pa. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, C. E. Siebecker, Bethlehem, Pa. Brick, 2½ stories, slate roof, hardwood floors, warm air heating, electric light, tile work. Plans in progress.

Bungalow and Garage, Drexel Hill, Pa., $16,000. Architect, Charles M. Wells, Rutledge, Pa. Owner, name withheld. Stone, 1½ stories, tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Residence, Rutledge, Pa., $6,000. Architect, Charles M. Wells, Rutledge, Pa. Owner, name withheld. Frame and stucco, 2 stories, tile roof, hot water heating, electric light, tile and marble work. Plans in progress.

Bungalow, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Clayton Feger, Franklin street, Spring City, Pa. Brick and stone, 1 story, 28x35 feet, asbestos roof, yellow pine floors (heating, lighting and plumbing reserved), korelock doors, terra cotta flues. Plans in progress. Owner will take bids.

School, Salisbury, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Salisbury Township School District, care of W. Weitknecht, Bethlehem, Pa. Brick, cast stone, 2 stories, 89x51 feet, built-up roof, gum and cement floors, steam heat, electric light, metal lath, dampproofing, iron stairs. Architect ready for bids due March 1st. Deposit of $25.00.

Garage, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, H. A. Foering, 828 West Broad street, Bethlehem, Pa. Steel, concrete, brick, 3 stories, 60x100 feet, slag roof, concrete floors, steam heat, electric light, metal lath, freight elevators, fire doors. Revised plans in progress.

Residence, Penfield, Delaware County, Pa. Architect, Arthur B. Gill, 328 Market street, Camden, N. J. Owner, George Welsh, care of architect. Hollow tile, 2 stories, 27x36 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Robert Ward, 633 North Sixty-third street, Philadelphia, taking approximate bids on revised plans.

Schools (2), Pottsville, Pa. Architect, F. X. Reilly, Odd Fellows' Building, Pottsville, Pa. Owners, School Board, Pottsville, Pa. Architect selected. Too early for details.

Store and Residence, Butler avenue, Ambler, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Mrs. C. Marvin Riley, Ambler, Pa. Tapestry brick and stucco, 3 stories, 20x70 feet, slag roof, cement and pine floors, steam heat, electric light, tile work, terra cotta, copper bulks. Owner is taking bids.

Bungalow, Souderton, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Dr. F. N. Bunting, Souderton, Pa. Brick, 1½ stories, 32x53 feet, asbestos shingle roof, pine floors, steam heat, electric lighting. Plans in progress. Architect will take bids in two weeks.

Residence, Bridgeport, Pa. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, John M. Mairs, Norristown, Pa. Frame and stucco, 2½ stories, 33x28 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Owner is ready for bids.

Apartment House, Narberth, Pa. Architect, Ellery K. Taylor, 315 South Fifteenth street, Philadelphia. Owner, S. T. Atherholt, Narberth, Pa. Stone, 3 stories, 123x32 feet, (2) wings 22x28 feet, slate roof, oak and pine floors, metal lath, vapor heat, electric light, tile and marble work, iron work. Plans in progress. Owner is taking sub-bids.

Twin Residence, Glenside, Pa. Architect, private plans. Owner, name withheld. Frame and stucco, 2½ stories, 30x37 feet, shingle roof, hardwood floors, steam or hot water heat, electric lighting, plumbing. Edward J. Heinke, Twelfth and Norris streets, taking sub-bids.

Jefferson School Annex, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, School Board of Allentown, care of T. P. Wenner, secretary, School Administration Building, Allentown, Pa. Brick, 2 stories and basement, steel, 130x200 feet, concrete foundations, slag roof, hardwood floors, tile, marble and terrazzo work, rolled steel skylights, fire doors, metal lath, roof ventilators, waterproofing and dampproofing, iron stairs and work (heating, plumbing and electric work reserved). Owners taking revised bids due March 7th. Butz & Clader, Ainey Building; Ochs Const. Co., 440 Wire street; Ritter & Smith, 1227 Gordon street; William H. Gangwere, A. N. B. Building; George Hardner, Lentz Building, all of Allentown, Pa.; R. S. Rathbun, 409 Vine street, Bethlehem, Pa., are figuring.

Church, Brookline, Pa. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Brookline Methodist Episcopal Church, Brookline, Pa. Stone, 35x45 feet, slate roof, pine floors, steam heat, electric lighting (plastering and painting reserved). Architect taking bids due February 28th. Penn Const. & Eng. Co., 3840 Spring Garden street; F. B. Davis & Son, Inc., 240 North Sixteenth street; F. E. Wallace, 1220 Chancellor street; J. H. Hinkle, Twenty-fifth and Delancey streets; McNeill Valentine Co., 841 North Broad street; F. A. Havens Co., 845 North Nineteenth street, Philadelphia; John E. Speth, Brookline, Pa., and E. Oscar Llobb, Llanerch, Pa., are figuring.

Memorial Science Building, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian College and Theological Seminary, care of architect. Steel, brick, 3 stories, 40x70 feet, concrete foundations, slate roof, hardwood floors, hot water heat, electric light, tile work, metal lath, safety treads, roof ventilators. Architect taking bids due March 1st. F. F. Speck Const. Co., 51 West Walnut street; Brillhart Brothers, Bethlehem Trust Building; Garber & Cissel, 12 West Fourth street; Howard E. Stoudt & Son, 424 Avenue C; George W. Heller & Son, 719 North New street; Frank B. Glassmire, Bethlehem Trust Building, all of Bethlehem, Pa., are figuring.

Residence, Ambler, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Mrs. C. Marvin Riley, Ambler, Pa. Architect taking bids due February 23rd. Penn Const. & Eng Co., 3840 Spring Garden street; C. J. Kemmerle, Ambler, Pa.; Howard S. Amey, Ambler, Pa.; W. John Stevens, Inc., Wyncote, Pa., and J. S. Cornell & Son, Morris Building, Philadelphia, are figuring.

School, Langhorne, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Board of Education, Doylestown, Pa. Brick, 2-story add., 30x60 feet, slate roof, maple floors, heating and electric light extensions. Architect taking bids due February 28th. C. E. Smith, Hulmesville, Pa.; C. Y. Stradling, Newtown, Pa.; Morris Girton, Newtown, Pa., and T. C. Snyder, Cornwells, Pa., are figuring.

Residence, Ardmore, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street. Owner, J. V. Slaughter, Ardmore, Pa. Hollow tile and stucco. Architect taking bids due March 1st. George R. Markle, Narberth, Pa.; Adolph Korn, Clifton Heights, Pa.; J. Howard Roberts, Lansdowne, Pa.; Fesmire Brothers, Huntingdon Valley, Pa., and Leedom Brothers, 5213 Webster street, Philadelphia; L. B. Spencer, Ardmore, Pa., are figuring.

Junior High School, Monessen, Westmoreland County, Pa. Architect, J .Mervin Beall & Son, Monessen, Pa. Owners, Board of Education, Monessen, Pa. Brick and steel, 2 stories, 200x126 feet, asphalt roof, cement, maple, composition, cork tile and linotile floors, metal lath, metal window guards, waterproofing, terra cotta, steel doors, hollow metal skylights, tile, marble and terrazzo work (heating, lighting and plumbing reserved). Architect taking bids due February 24th. P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia, are figuring.

Residences (2), Cynwyd, Pa. Architect, Theodore F. Dillon, 903 South Forty-ninth street, Philadelphia. Owners, J. L. & T. F. Dillon, 903 S. 49th st. Stone and frame, 2 stories, 28x38 feet, shingle roof, hardwood and pine floors, hot water heat (electric work reserved), tile work. Architect taking bids. Samuel T. Atherholt, Narberth, Pa.; George Bottoms, Narberth, Pa.; Walter Schlipf, 1731 North Fifty-third street, Philadelphia, and Walter Gill, Lansdowne, Pa., are figuring.

Residence (alts. and add.), Cynwyd, Pa. Architect, Thomas B. Lippincott, 10 South Eighteenth street, Philadelphia. Owner, Dr. Edward Campbell, 310 Kent road, Cynwyd, Pa. New enclosed porch, 26x20 feet, shingle roof, composition floor, electric work, hardware. Architect taking bids due February 23rd. William J. Ryder, 1716 Sansom street, Philadelphia, and Charles C. Pace, Merion, Pa., are figuring.

School, Tuscarora, Pa. Architects, Benjamin R. Stevens, Inc., 1737 Filbert street, Philadelphia. Owners, School Board of Tuscarora, Pa. Lowest bids submitted by Butz & Clader, Allentown, Pa., $75,300. Heating, Herre Brothers, Harrisburg, Pa., $17,670. Plumbing, Hadesty, Tamaqua, Pa., $6,537.

Labor and Material, Heating System, State Highway Garage, Twelfth and State streets, Harrisburg, Pa. Owners, State of Pennsyl-

vania, T. W. Templeton, Supt. of Commissioners of Public Grounds and Buildings, Capitol Building, Harrisburg, Pa. Owners taking bids, due March 14th at noon. Deposit $5.00.

Supplies, State Highway Department, Harrisburg, Pa. Owners, State of Pennsylvania, State Highway Department, George H. Biles, Asst. Supt. Highway Commissioner, Harrisburg, Pa. Reinforced concrete culvert pipe and corrugated metal. Owners taking bids, due March 10th at 10 A. M.

Residence, Jenkintown, Pa. Architect, private plans. Owner, Wm. H. Kerr, 4848 North Sydenham street, Philadelphia. Stone, 2½ stories, 28x31 feet, slate roof, oak and pine floors, hot water heating, electric lighting. Owner taking bids, due February 24th. E. Allen Reeves, Inc., Abington, Pa., is figuring.

Residence, Cynwyd, Pa. Architect, H. G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, Horace P. Liversidge, Bala, Pa. Stone, 2½ stories, 52x27 feet, wing 18x27 feet, tile or slate roof, oak and pine floors, stone foundations, plumbing, heating, electric work, tile and marble work, bond, iron work. Architect taking bids, due February 23rd. Chas. C. Pace, Merion, Pa., only bidder.

Store and Apartment, Lawndale, Philadelphia. Architect, Christian H. Fries, 8327 D street, Fox Chase, Philadelphia. Owner, A. H. Martin, care of architect. Brick and steel, 59x55 feet, 2 stories, slag roof, oak and pine floors, steam heat, electric light, tile and marble work, metal ceilings, iron work. Architect taking bids, due February 27th. E. Allen Reeves, Inc., Abington, Pa., is figuring.

Residence, Elkins Park, Pa. Architect, private plans. Owner, H. E. Taylor, care of Builder. Stone, 2½ stories, 44x47 feet, slate roof, oak and pine floors, hot water heat, electric lighting. E. Allen Reeves, Inc., Abington, Pa., is figuring.

Pennsylvania Contracts Awarded

Apartment House, Drexel Hill, Pa. Architect, Charles M. Talley, 2536 North Thirty-first street. Owner, Edward H. Wanamaker, Drexel Hill, Pa. Contract awarded to Bowden Const. Co., 1713 Sansom street.

Jackson School Annex, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, School Board of Allentown, T. P. Wenner, secretary, Allentown. Brick, cut stone and steel, 2 stories, 62x102 feet (heating, electric work, plumbing separate contracts), Spanish tile and asphalt built-up roof, terrazzo and yellow pine floors, tile work, metal lath, roof ventilators, kalamein doors, floor hardener, ornamental iron work. Contract awarded to W. H. Gangwere & Co., Allentown National Bank Building, Allentown, Pa.

Building, Lester, Pa. Architect, private plans. Owners, Lester Piano Co., 1306 Chestnut street. Brick, 3 stories, 144x85 feet, slag roof, maple floors, rolled steel sash, bond, iron work (heating, plumbing, lighting and sprinklers reserved). Contract awarded to George S. Roe, 6949 Saybrook avenue, Philadelphia.

School (alts. and add.), Narberth, Pa. Architect, A. H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Main Montgomery School, Hopper Estate, Narberth, Pa. Brick, 2 stories, 63x43 feet, slag roof, roof ventilators, fire doors. Contract awarded to Gray Brothers, Rosemont, Pa.

Store (alts.), Allentown, Pa. Architect, D. Levy, 938 Hamilton street, Allentown, Pa. Owner, Charles Kline, on premises. Steel, 2 stories, 20x110 feet, slag roof, concrete and wood floors, electric lighting, tile and marble work, elevators. Contract awarded to W. H. Gangwere, Allentown National Bank Building, Allentown, Pa.

Residence and Garage, Cynwyd, Pa., $14,000. Architect, private plans. Owner, J. M. Reiley, 5211 Litchfield street, Philadelphia. Brick and stucco, 2½ stories, 28x40 feet, slate roof, hot water heat, electric lighting, hardwood floors, tile work. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

Residence, Ardmore, Pa. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, name withheld. Frame and stucco, 1½ stories, 35x33 feet, shingle roof, oak and pine floors, hot water heat, electric lighting, tile work. Contract awarded to Stewart Hutchinson, Ardmore, Pa.

New Jersey Construction News

Store (alts.), South Broad street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, H. E. Brown, care of architect. New front, copper work, pine floors, electric light, terra cotta. Plans in progress.

Residence, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mr. M. Morris, care of architect. Brick, frame, 2½ stories, 25x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

School (add.), Knockner School, Hamilton Township, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Hamilton Township School Board, William Robinson, Hamilton Township. Brick, 2 stories, 4 rooms, slate roof, hardwood floors, steam heat, electric light, marble work, hollow tile, metal lath, roof ventilators, hollow metal skylights, iron stairs. Too early for details.

School (add.), Maple Shade, Hamilton Township, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Board of Education of Hamilton Township, N. J. Brick, 2 stories, 6 rooms, slate roof, hardwood floors, steam heat, electric light, marble work, hollow tile, metal lath, roof ventilators, hollow metal skylight, iron stairs. Too early for details.

Church (alts. and add.), Pitman, N. J. Architect, Arthur B. Gill, 328 Market street, Camden, N. J. Owners, Pitman Baptist Church, care of architect. Concrete block, 1 story and basement, 28x56 feet and 28x28 feet, steam heat, electric light, pine floors. Architect ready for bids.

School for Deaf, Scudder Falls, Trenton, N. J. Architects, Guilbert & Betelle, 665 Broad street, Newark, and Arnold H. Moses, Temple Building, Camden, N. J. Owners, State of New Jersey, Department of Institutions and Agencies, Trenton, N. J. Brick,, (4) cottages and school building, dining hall, auditorium and gymnasium, slate roof, fireproof floors, steam heat, electric light, tile and terrazzo work, metal lath. Owner ready for bids. Plans may be secured at office of A. H. Moses, Temple Building, Camden, N. J.

Amusement Pavilion, Clementon Park, N. J. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, William N. Starr, care of architect. Frame, 50x80 feet, composition shingle roof, pine floors, electric light. Architects taking bids due as soon as possible. Charles Seybold & Son, Clementon, N. J., are figuring.

Residence (alts.), 109 South Vassar Square, Atlantic City, N. J. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, James Stuart Lowry, Baltimore, Md. Frame and brick, canvas roof, gas ranges, slate roof, heating and electric extensions, tile work, painting, plumbing. Architects taking bids due February 24th. John Bauer, California and Atlantic avenues; William Kuhl, North Portland avenue; Morrell Bowen, Montgomery and Winchester avenues, and Josiah Conover, Venice Park, all of Atlantic City, N. J., are figuring.

Juvenile Detention House (alt. and add.), 422 North Second street, Camden, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Board of Chosen Freeholders, Morris P. Rudderow, chairman, Building Committee, Camden County Court House, Camden, N. J. Brick and steel, 3 stories, 15x12 feet, Barrett roof, cement and linoleum floors, metal lath, steam heat, electric light, tile, marble and terrazzo work, hollow metal sash and skylights, bond. Owners taking bids due March 3rd. Hugh B. Miller, Edgewater Park, N. J.; Heavner & Guthridge, Norristown, Pa.; J. W. Draper, 436 Haddon ave.; A. J. Voegtlin, 41st and Westfield sts., Winter & Fern, all of Camden, N. J.; Wm. Linker, 735 Cherry st.; F. V. Warren Co., 132 South Seventeenth street; J. M. Yardley, 1716 Sansom street; F. B. Davis & Son, Inc., 240 North Sixteenth street; H. E. Baton, 1713 Sansom street; Barclay White Co., 1713 Sansom street; P. H. Kelly Const. Co., 1713 Sansom street; Wills-Bill Co., 1706 Sansom street; Robbins Cont. Co., 1137 North Front street, Philadelphia, and Fred Lange, Audubon, N. J.; Monaghan & Losse, Inc., 3016 Chestnut street, and Potts Bros. & Cooperson, 129 N. Eleventh street, Philadelphia, are figuring.

Underground Comfort Station, South Plaza, Camden County Court House, Camden, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Camden County Board of Freeholders, James F. Walton, chairman, Building Committee, Court House, Camden, N. J. Brick, steel and cut stone, irregular size, concrete roof, cement floors, metal lath, waterproofing and dampproofing, iron work, bond, marble and terrazzo work, steam heat, electric lighting. Owners taking bids due March 3rd. Hugh B. Miller, Edgewater Park, N. J.; J. W. Draper, 436 Haddon ave.; A. J. Voegtlin, 41st and Westfield sts.; Winter & Fern, all of Camden, N. J.; F. V. Warren Co., 132 South Seventeenth street; J. M. Yardley, 1716 Sansom street; F. B. Davis & Son, Inc., 240 North Sixteenth street; H. E. Baton, 1713 Sansom street; Barclay White Co., 1713 Sansom street; P. H. Kelly Const. Co., 1713 Sansom street; Wills-Bill Co., 1706 Sansom street, Philadelphia; Fred Lange, Audubon, N. J.; Robbins Cont. Co., 1137 North Front street, Philadelphia; William Linker, 735 Cherry street, and Heavner & Guthridge, Norristown, Pa.; Monaghan & Losse, Inc., 3016 Chestnut street, and Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia, are figuring.

Store and Apartment, Illinois and Pacific avenues, Atlantic City, N. J. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, Y. Dein, Pacific avenue, Atlantic City, N. J. Brick, steel and cut stone, 3 stories, 94x25 feet, slag roof, oak and pine floors, metal lath, iron work, bond, hollow metal sash, tile, marble and terrazzo work, steam heat, electric light. Architect taking additional bid from Lam Building Co., 1001 Wood street, Philadelphia, due February 25th.

Apartment, South Massachusetts avenue, Atlantic City, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City, N. J. Owner, Samuel Schlechter, Atlantic City, N. J. Brick, 3 stories, 20x80 feet, slag roof, concrete foundations, hardwood floors, hot water heat, electric light, tile and marble work, rolled steel skylights. Architect will take bids in ten days.

War Memorial Building, Pacific avenue, At-

lantic City, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Atlantic City, Mr. Steinbricker, City Hall, Atlantic City, N. J. Stone, fireproof, 3 stories and basement, 55x100 feet, stone foundations, maple floors, Johns Manville roof, electric light, tile work, plumbing. Owners will take bids, due March 8th.

Twin Residences, 4-6 South Texas avenue, Atlantic City, N. J., $20,000. Architect, A. F. Amodio, 29 Segal Building, Atlantic City, N. J. Owner, Samuel Ginsberg, Atlantic City, N. J. Brick, 40x79 feet, slag roof, hardwood floors, electric light. Owner taking bids.

Residences (2), 5-7 South Spray avenue, Atlantic City, N. J., $15,000. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, Samuel Ginsberg, Atlantic City, N. J. Brick, 2 stories, 38x53½ feet, slag roof, hardwood floors, hot water heat, electric light. Owner taking bids.

Apartment House, Newport and Ventnor avenue, $30,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, I. Speer, 15 South Buffalo avenue, Ventnor, N. J. Brick, 3 stories, 41x80 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids, due as soon as possible. J. Vaugh Mathis, Guarantee Trust Building; Philip Hannum, Georgia avenue and Thorofare; Eugene Parson, John Green, H. Scull, 8 North Cambridge avenue, Atlantic City, N. J., are figuring.

Garage and Apartments, Albany avenue, Atlantic City, N. J., $40,000. Architect, A. F. Amodio, Segal Building, Atlantic City, N. Owners, D. & D. Supply Co., Atlantc City, N. J. Brick, 100x98 feet, slag roof, concrete floors, hot water heat, electric light, tile work, metal lath, roof ventilators, rolled steel skylights, fire doors, store fixtures, floor hardener, ornamental iron work. Plans in progress.

Residence and Garage (alts. and add.), 6119 Monmouth avenue, Ventnor, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City, N. J. Owner, M. H. Goodwin, Adelphia Hotel, Philadelphia. Hollow tile and stucco, 2 stories, 38x63 feet, Spanish tile roof, concrete and hardwood floors, hot water heat, electric light, tile and marble work, incinerator. Plans in progress.

Bank (alts. and add.), Atlantic and Kentucky avenue, Atlantic City, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Union National Bank, Dr. Cuskaden, on premises. Brick, general alterations, concrete and hardwood floors, tile, marble and terrazzo work, bank fixtures, fireproof vault. Plans in progress.

Masonic Hall, Cape May, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Masonic Order, J. S. Hewitt, Cape May, N. J. Hollow tile and stucco, 2½ stories, 40x120 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, metal lath, roof ventilators, skylights. Plans in progress.

Bank (alts.), Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Ventnor Trust Co., care of architect. New front, cut stone work, terrazzo floors, electric light, tile and marble work, ornamental iron work. Plans in progress.

Post Office (add.), Victoria and Atlantic avenue, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner's name withheld. Brick, 1 story, 32x80 feet, slag roof, terrazzo floors, hot water heat, electric light, tile work, skylights, roof ventilators. Architect will take bids in two weeks.

New Jersey Contracts Awarded

Shelters and Concourse, Jersey City Passenger Terminal, Jersey City, N. J. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Plaster and steel, 1 story, 112x19 feet, (3) 90x27 feet, (4) 17x577 feet, concourse, 30x256 feet, Barrett roof, concrete floors, metal lath, waterproofing, iron work, bond. Contract awarded to Frederick Snare Corp., 8 West Fortieth street, New York City.

Apartment, Ventnor, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Moyer & Wiley, Atlantic City, N. J. Brick, 2 stories, 24x60 feet, slag roof, pine floors, steam heat, electric light. Contract awarded to Josiah Conover, Morningside and Arkansas avenues, Atlantic City, N. J.

Garage and Apartment, North Michigan avenue, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, Jacob Rimkiefsky, 25 South Texas avenue, Atlantic City, N. J. Brick, 2 stories, 149x50 feet, slag roof, composition floors, electric light, hollow metal skylights. Contract awarded to Samuel Dolinsky, 2 North Vermont avenue, Atlantic City, N. J.

Bungalow, Ventnor, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owner, W. Chandler Stewart, 808 Atlantic avenue, Atlantic City, N. J. Brick, hollow tile and stucco, 1½ stories, 30x66 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to P. G. Hannum, Georgia avenue and Thorofare.

Apartment, Ventnor and Portland avenue. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, M. Salina, 144 S. Bellevue avenue. Brick, 47x75 feet, slag roof, hardwood floors, hot water heat, electric light, hollow tile, metal lath, metal window guards. Contract awarded to M. Dolinky, 1308 Pacific avenue, Atlantic City, N. J.

Apartment, Harrisburg and Ventnor avenues. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, A. F. Farrania, Harrisburg and Ventnor avenues. Brick, 34x65 feet, hardwood floors, hot water heating. Contract awarded to Abacus Const. Co., Atlantic City, N. J.

Building (alts.), North Georgia avenue, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, Rocco Pepino, 37 North Georgia avenue, Atlantic City, N. J. Frame, 20x40 feet, slate roof, hardwood floors. Contract awarded to Abacus Const. Co., Atlantic City, N. J.

Building (alts.), Arctic avenue, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, J. Pilengmuten, Arctic avenue, Atlantic City, N. J. Brick, copper, hot water heating, slag roof, 25x50 feet, hardwood floors, hot water heat, electric light. Contract awarded to Abacus Const. Co., Atlantic City, N. J.

Miscellaneous Construction News

Country Club, Greensboro, N. C., $50,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Greensboro Country Club, Greensboro, N. C. P. Rucker, president. Hollow tile and stucco, 2 stories. Preliminary plans in progress.

Proposals

SEALED PROPOSALS

Notice is hereby given that sealed bids will be received by James F. Walton, Chairman of the Court House Committee of the Board of Chosen Freeholders of Camden County, and opened and read in public on Saturday, March 4th, 1922, at eleven o'clock A. M., at a public hearing of said Committee, to be held in the Freeholders' room in the Court House, Camden, N. J., for changes in the quarters of the County Clerk and also in offices of the Prosecutor, in accordance with specifications and drawings, which may be seen on application at the office of the architects, Rankin, Kellogg and Crane, 1012 Walnut street, Philadelphia, Pa.

Bids must be enclosed in sealed envelopes, bearing the name and address of the bidder and the words "Bid on Changes in Court House," and addressed to James F. Walton, Chairman, Court House, Camden, N. J.

Each bid must be accompanied by a certified check in a sum ot less than ten per cent. of the bids submitted.

A surety bond will be required in the full amount of the contract for the proper completion of the work, and the bidder shall also include in his bid a bid-certificate from a surety company.

The Board of Chosen Freeholders reserves the right to reject any and all bids.

James F. Walton,
Chairman, Court House Committee.

Dated February 20, 1922.

Notice is hereby given that sealed bids will be received by James F. Walton, Chairman of the Court House Committee of the Board of Chosen Freeholders of Camden County, and opened and read in public on Saturday, March 4th, 1922, at eleven o'clock A. M., at a public hearing of said Committee, to be held in the Freeholders' room in the Court House, Camden, N. J., for removing the present roof covering and providing new roof covering with flashings and including resetting and repointing of terra cotta balustrade and other miscellaneous repairs included thereby of the Camden Court House, at Camden, N. J., in accordance with specifications which may be had by application at the office of the architects, Rankin, Kellogg and Crane, 1012 Walnut street, Philadelphia, Pa.

Bids must be enclosed in sealed envelopes, bearing the name and address of the bidder and the words "Bid on Court House Roof," and addressed to James F. Walton, Chairman, Court House, Camden, N. J.

Each bid must be accompanied by a certified check in a sum not less than ten per cent. of the bids submitted.

A surety bond will be required in the full amount of the contract for the proper completion of the work, and the bidder shall also include in his bid a bid-certificate from a surety company.

The Board of Chosen Freeholders reserves the right to reject any and all bids.

James F. Walton,
Chairman, Court House Committee.

Dated February 20, 1922.

Notice is hereby given that sealed bids will be received by James F. Walton, Chairman of the Court House Committee of the Board of Chosen Freeholders of Camden County, and opened and read in public on Thursday, March 2nd. 1922, at ten o'clock A. M., at a public hearing of said Committee,

to be held in the Freeholders' room in the Court House, Camden, N. J., for the building and construction of a Comfort Station at the Court House, in accordance with the plans and specifications therefore on file in the office of the Clerk of said Board, and on view at the offices of Benjamin Howell Lackey and Joseph Norman Hettel, architects, No. 5 Hudson street, Camden, N. J.

Bids must be enclosed in sealed envelopes, bearing the name and address of the bidder and the words "Bid on Comfort Station," and addressed to James F. Walton, Chairman, Court House, Camden, N. J.

Each bid must be accompanied by a certified check in a sum ot less than ten per cent. of the bids submitted.

A surety bond will be required in the full amount of the contract for the proper completion of the work, and the bidder shall also enclose in his bid a bid-certificate from a surety company.

The Board of Chosen Freeholders reserves the right to reject any and all bids.

James F. Walton,
Chairman, Court House Committee.

Dated February 8, 1922.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 15, 1922. Sealed Proposals will be opened in this office at 3 P. M., March 15, 1922, for the construction of extension, etc., to the United States Post Office, Hagerstown, Md. Drawings and specification may be obtained from the Custodian at Hagerstown, Md., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

LAW BUILDING
at
WEST VIRGINIA UNIVERSITY
Morgantown, W. Va.

NOTICE TO CONTRACTORS

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 4.00 P. M. Friday, March 31st, for doing all work and furnishing all materials necessary to complete the building described below, according to the plans and specifications of Charles W. Bates, Architect, Wheeling, W. Va.

The building is to be 144 feet x 56 feet, two stories and basement, fireproof construction, exterior of face brick, and stone; interior wood finish of oak, main corridors and stairway of marble, interior partitions of hard tile, roofing tile, flooring, maple, tile, marble and linoleum. Basement contains locker rooms, toilets, club rooms, machinery room, storage and packing room. First floor contains three class rooms, practice court, girls' club rooms. Second floor contains reading room, stack room, professors' offies, librarian's office.

Plans, specifications and blank form for bids will be mailed by the State Board of Control when request is accompanied with check for $10.00, five dollars of which will be refunded on return of plans accompanied with bona fide bid. Separate bids will be taken on wiring, plumbing and heating.

Bids to be accompanied by certified check payable to the State Board of Control for an amount equal to one per cent. (1%) of the bids, as guarantee of good faith.

STATE BOARD OF CONTROL
By James S. Lakin, President
Charleston, W. Va.

(Continued from Page 120)

struction and extending to the manufacturers of all the tools of production and of all consumable goods.

"Nor does this policy call for any drain whatever from the public treasury. The credit of the United States is excellent and could in no way be impaired by public loans for manifestly productive purposes, purposes approved by the overwhelming majority of the nation, including investors. The extensions of credit proposed are based either upon absolutely sound security or are intended for works which will pay for themselves many times over in the increased productive capacity of the nation that will result."

"COMMUNITY BUILDING FOR INDUSTRIAL TOWNS"

The industrial center club building is not a new idea either in this country or in Europe, but there are strong present day tendencies in such buildings which are a definite post war development. How marked these tendencies have become may be observed by a study of "Community Buildings for Industrial Towns," a publication just issued* "to meet the needs of a large number of industrial organizations, individuals and communities."

This publication, the result of studies of the whole field made during 1921, is largely a discussion of some carefully chosen examples of such buildings from the standpoint of architecture, administration and scope of activities. There are conclusions to be drawn from it which cannot fail to interest the local architect. Notably, there is a large and steadily increasing demand for industrial center buildings: these buildings, even when financed solely by the industry, must be broadly democratic in their appeal; they must be so planned as to interest people of all ages and of both sexes.

Even the earliest forms of "welfare clubs" provided within industrial establishments are found to have gradually become democratic in their control, and are being remodeled, enlarged, or replaced often by the workers or by an intra-works organization representing the employers and the employed. The latter, no less than the former, have "come to realize more fully the significance of recreational activities which identify the workers with community life. The community house, where the worker in his leisure hours meets the people of the neighborhood who may or may not be asociated with him in the industry, helps to provide an outlet, for the moral instincts of sociability and companionship."

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*"Community Buildings for Industrial Towns," Community Service, One Madison Avenue, New York, price, 75 cents.

Those responsible for the newest and most distinctive developments in industrial center social buildings have been noticeably alert in incorporating into them just those features which have contributed most to the success of the memorial community buildings of the country. While nothing approximating a standard of community house architecture has developed to date, a study of the World War "memorials of democracy"** the country over will show that there is a well defined minimum of requirements for the building of a given type. These requirements, adapted to the situation under discussion, are admirably set forth in "Community Buildings for Industrial Towns" in the form of full floor plans for three buildings ranging in price from $45,000 to $275,000. (Jallade, Lindsay and Warren, architects, 129 Lexington Avenue, New York.)

It goes without saying that the local situation demands of the architect as well as of the industrial heads or of the local building committee, a knowledge of the most modern developments in social buildings. It may be added, that it demands as well at least some degree of social mindedness on the part of the architect if those buildings in the aggregate are going to develop into something really fine, into a genuine contribution to the social life of America. If the auditorium, for instance, is successful as a gymnasium, it will inevitably develop an enthusiasm for indoor sports which will demand exclusive gymnastic facilities. Bowling alleys, a swimming pool, a running track. To whom but to the architect would it occur that even the choice of the building site should be such as to permit of additions to the building or future excavation for a basement floor? Or that the back stage theater dimensions must be planned to conform to modern "little theater" requirements, if the local dramatic group is to expand? Or that the kitchen must be so placed as to be easily accessible to large and small rooms for the service of hot food, if hospitality is not to be thwarted?

It is because of its more or less technical discussion of these points as well as of such topics as acoustics, filtering plants, and retaining walls for swimming pools, that the architect as well as the layman interested in the development of community life will find "Community Buildings for Industrial Towns" an invaluable source of information.

MARTHA CANDLER.

**A series of twelve bulletins devoted to discussions of the various phases of the memorial building movement, are available through Community Service without charge.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

The only road to advancement is to do your work so well that you are always ahead of the demands of your position. Our employers do not decide whether we shall stay where we are or go on and up; we decide that matter ourselves. Success or failure is not chosen for us: we choose them for ourselves.—H. W. Mabie.

"Camouflage" doesn't pay in advertising. Don't call your cannon a bit of landscape. Be honest and gain the confidence of the public.

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PHILADELPHIA

February Fourteenth
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Louis S. DeLone, President,
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Perry Building, Phila., Pa.

Dear Sir:

The general depression in the Building Trades at the present time, makes the old slogan, "Boost! don't knock" a particularly good sentiment.

Bearing this idea in mind we are sending, unsolicited, our appreciation of your "Daily Building News" and your "Builders' Guide".

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Per Raymond L. J. Riling

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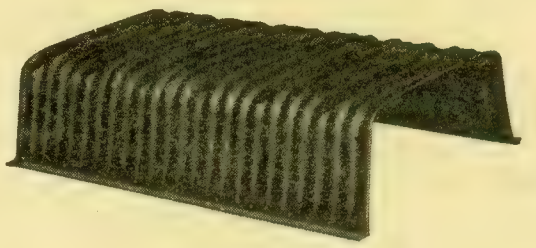
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Builders' Guide

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March 1, 1922

Issued Weekly in the Interests or Architects, Structural Engineers, Contractors and the Material and Equipment Trades

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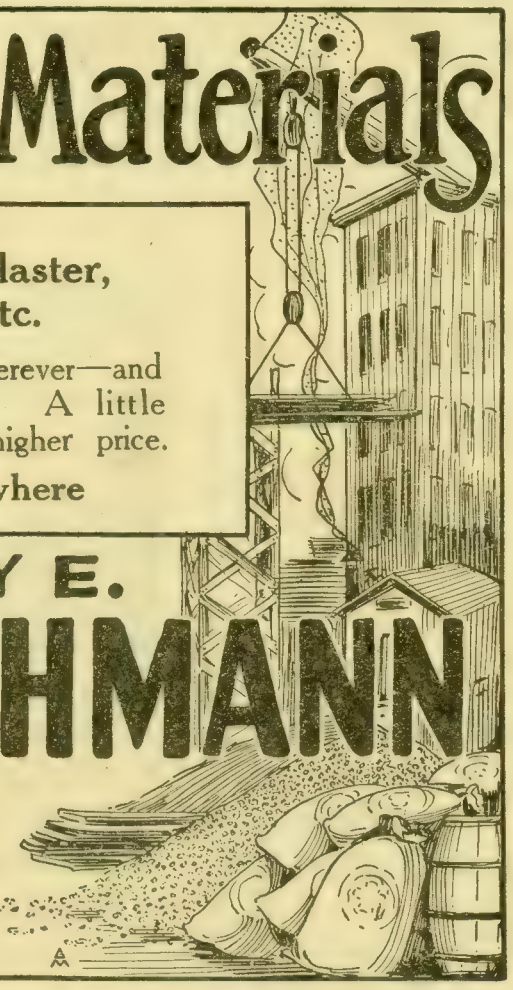
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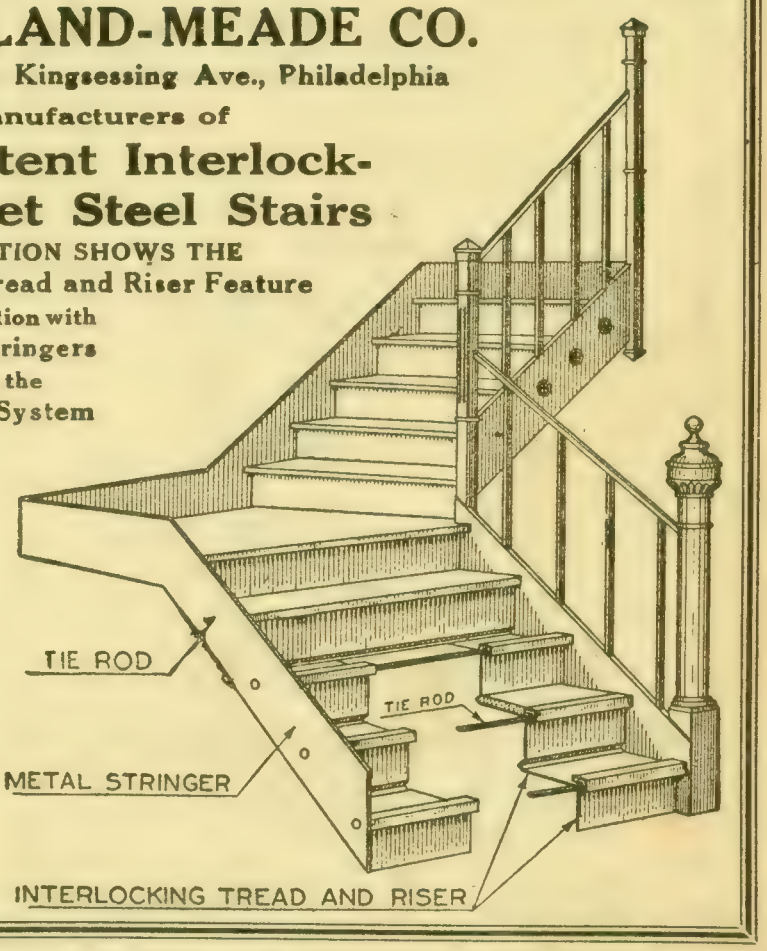
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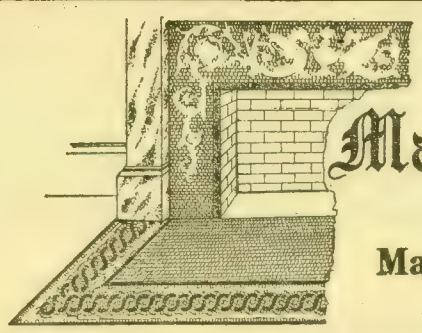


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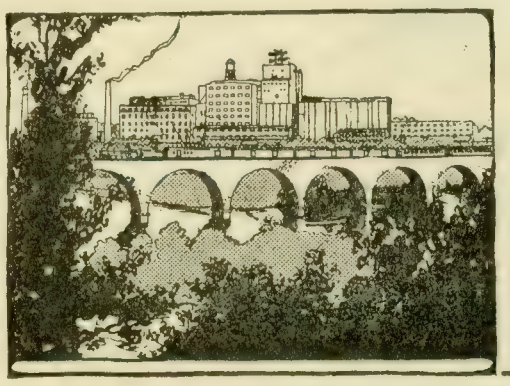
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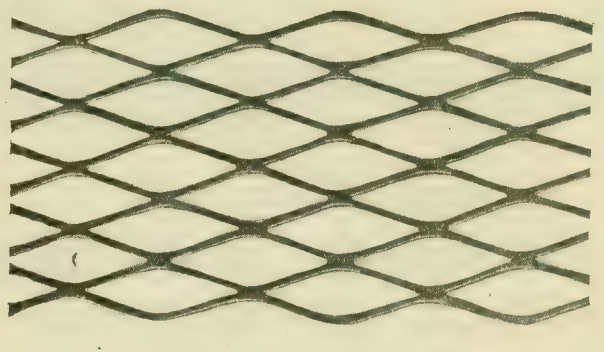
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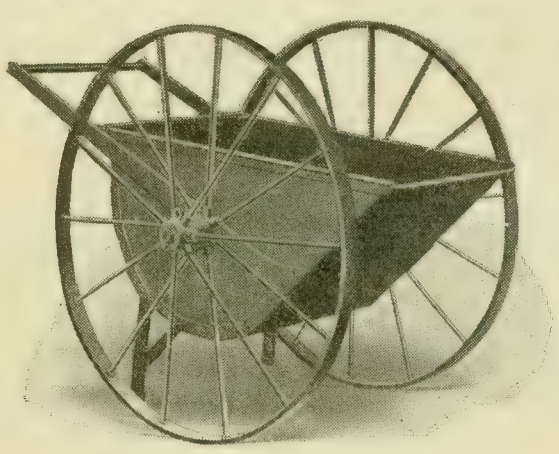
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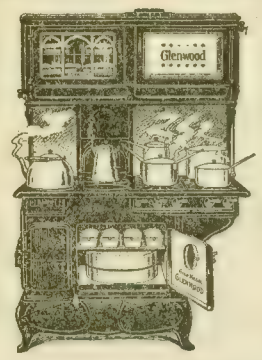
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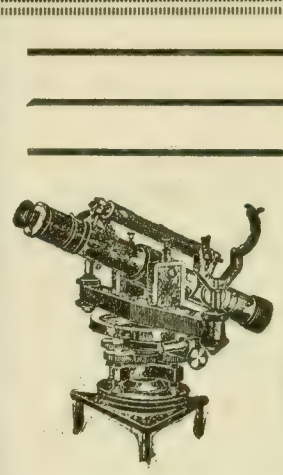
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PHILADELPHIA
March 1, 1922

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As The Editor Sees It

IT is always interesting and enlightening to hear the other fellow's point of view. So many people have suffered during the last few years at the hands of landlords and their ascending rentals; so many have been waiting for the lower building costs which do not come, that we are well acquainted with their tale of woe. Now, behold! a champion of the so-called profiteering landlord and house builder. W. C. M. writes to the Editor of the *Bulletin*:

Sir: In spite of what the Socialists or the dissatisfied people may say, the good people who own houses and buildings should be allowed to do what they please with their property—sell it, rent it or give it away if they want to. And they should be allowed to get as much money as they can for their property and also as much rent as they can. The good people who own houses and buildings are not forcing anyone to buy or rent their property, and they are not stopping houses or buildings from being built. This is being done by the land owners and speculators. They own land and don't use it and will not let anyone else use it, but hold it idle, waiting for a big price or a big rent for it, or because they do not want there anyone in the same business, or because the land was in the family so long they hate to part with it, making it hard to get the kind of land wanted to build houses and to produce the good things we need.

Now, the more we tax land values the more we discourage people from holding land idle, and the cheaper the land gets. To build houses and to produce the good things we need and want will give people work, and the more we tax buildings and houses and all the good things we need, the more we discourage the good people from building houses and buildings and from producing the good things we need, and the dearer and scarcer they get. Now, let's tax land values more and all houses and buildings and the thinge we need *less*, so houses and buildings and the good things will be plentiful and cheap, and more people working and the country more prosperous.

* * *

In response to a request by the President in connection with Senator King's suggestion for calling a National Conference on Housing, the following report of the progress of the work of the Department of Commerce with relation to the housing situation was submitted to the President by Secretary Hoover.

I am greatly obliged for your letter of February 2nd, enclosing the very earnest letter from Senator King on the subject of a national conference on housing.

That there is a national shortage of houses requires no repetition. The shortage probably amounts to nearly a million homes—and is, of course, the result of suspension of building during the war. Since that time high costs of building material and labor (due also to increased intermittency of employment) have prohibited the erection of little more than current necessities without recovery of the lost ground. I presume a national conference must proceed with a view either to securing community action or to secure legislation. We have, I believe, largely exhausted the possibility of community action already, as will appear from the following account:

Effort has already been made by the Department of Commerce which has, I believe, at least contributed to the resumption of construction during the past few months to a scale larger than any period since the war began. As the result of your request that this Department should interest itself in the matter (following upon the report of the Senate Committee on Housing), a sum of $50,000 was appropriated by Congress for the Housing Division in this Department.

Our first effort was through co-operation with unofficial bodies in bringing about local conferences on the housing situation in the different cities with a view to ameliorating conditions. These conferences have been held in over 100 cities. They comprised representatives of Chambers of Commerce, labor organizations building and other trade associations, bankers, material manufacturers and contractors. Through these conferences and through other forms of local

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initiative a very considerable amount of good has been accomplished, although the results have varied a great deal between cities. Positive plans have been worked out in many of them and great stimulation to home building has ensued; where they have gone upon the rocks, it has been over corrupt conditions of the building trades and over wage questions. This Department in addition to giving every stimulus it properly could to community action has served as a clearing house for information between these local efforts.

In addition to local effort, we have created a number of agencies, mostly voluntary, for the purpose of securing constructive solution to some of the more general problems that cause the blockade on housing. Various committees have been established and are engaged in sincere efforts in the following fields, the General Situation in the Construction Industry, Simplification of Municipal Building Rules, Simplification of Plumbing Requirements and Practice, Standardization of Contractors Specifications, Expansion of Small House Design Bureaus, Simplification of Clay Products, Lighting Fixtures, Lumber, Paint and Varnish, and in many other directions. By all these agencies much good has been accomplished in a quiet and efficient manner.

Among other things developed by these conferences was the total absence of any adequate comparative price data respecting building materials in various localities. This matter has been gradually developed in the Department and the spread of these comparative prices to the local conferences has resulted in many reductions.

As an example of problems of national scope, it was strongly emphasized in the investigation of the Senate Committee on Reconstruction that the disordered and expensive requirements of our municipal building rules are estimated to impose a 10% to 20% unnecessary cost upon housing. In this matter, the committee appointed comprised:

Ira H. Woolson, Chairman, Consulting Engineer, National Board of Fire Underwriters, New York City; Edwin H. Brown, Architect, Minneapolis, Minn., Chairman, Committee on Small Houses, American Institute of Architects; William K. Hatt, Professor of Civil Engineering, Purdue University, Director, National Research Council; Rudolph P. Miller, Ex-Superintendent of Buildings, N. Y. C., Chairman, Building Officials' Conference; J. A. Newlin, Forest Products Laboratory, U. S. Department of Agriculture; Ernest J. Russell, Architect, St. Louis, Mo. Chairman, National Board of Awards for Jurisdictional Disputes in the Building Industry, and Joseph R. Worcester, Consulting Engineer, Boston, Mass.

This Committee is drafting a simplified set of municipal building rules embracing the best practice of the art, and this work is well advanced. It has involved a large amount of co-operation with municipalities, with different trades and professions. Arising out of this we have also appointed a committee who are hard at work upon plumbing questions:

George C. Whipple, Chairman, Director, School of Sanitation, Harvard University; William G. Groeniger, President, American Society of Sanitary Engineering; William J. Spencer, Secretary-Treasurer of Building Trades Department, American Federation of Labor; H. Y. Carson, Research Engineer, American Cast Iron Pipe Company, Birmingham, Ala.; A. L. Webster, Sanitary Engineer, 112 East 40th Street, New York City; A. E. Hansen, Sanitary Engineer, 2 Rector Street, New York City; Thomas F. Haney, Chairman, Standardization Committee, National Association of Master Plumbers.

This committee is making good progress, and much experimental work is being done at the Bureau of Standards in the direction of simplification of plumbing requirements.

I appointed a national committee in the matter of city zoning in response to the urgent request of many interested national associations with a view to development of larger vision and more uniform legislation upon this subject.

The committee comprises:

Louis A. Moses, Cleveland, Ohio, Representing the National Association of Real Estate Boards; J. Horace McFarland, Harrisburg, Pa., representing the American Civic Association; Nelson P. Lewis, New York City, representing the National Municipal League and the National City Planning Conference; Lawrence Veiller, New York, representing the National Housing Association; Morris Knowles, Pittsburgh, Pa., of the United States Chamber of Commerce; Edward M. Bassett, New York City, Chairman of Zoning Committee of New York; Frederick Law Olmsted, Brookline, Mass., President of the Society of Landscape Architects, and John Ihlder, Washington, D. C., of the United States Chamber of Commerce.

At the recent Unemployment Conference, a sub-committee was appointed on construction industries, and to all intents acted as a national conference. This committee brought in a very valuable report and recommendations. Members of this committee were representative of all the different national elements in problem and the committee recommended the further development of local conferences and again urged the necessity of higher moral standards, the reduction of costs by materials, capital and labor. This committee has been expanded into more permanent form by the appointment of additional members, and is engaged in promoting local action. This committee comprises:

Ernest T. Trigg, President, National Federation of Construction Industries; Joseph H. DeFrees, President, United States Chamber of Commerce, Washington, D. C.; John Donlin, American Federation of Labor, Washington, D. C.; Alexander M. Linnett, President, U. S. League of Building and Loan Associations, Newark, N. J.; Irving B. Hiett, President, National Real Estate Board, 612 Madison Avenue, Toledo, Ohio; William Stabler, Comptroller, Metropolitan Life Insurance Company, New York City; John H. Kirby, Houston, Texas; Dr. J. T. Duryea, New York City; Chas. Warner, Wilmington, Del.; Richard E. Schmidt, Chicago, Ill.; Gen. R. C. Marshall, Washington, D. C.; C. F. Lang, Cleveland, Ohio; Daniel Crawford, Jr., Philadelphia, Pa.; William L. Monroe, Pittsburgh, Pa.

Generally, I have the feeling that a

(Continued on page 147)



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Warehouse and Storage, 250 North Tenth street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, name withheld. Brick, slow burning, 3 stories, 50x89 feet, slag roof, plank floors, steam heat, electric light, elevator. Plans completed. Architects ready for bids.

Recreation Centres (3), Chelten avenue and Anderson street, Longshore and Disston streets, and Twenty-first and Nedro streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Excavating, demolition, surfacing, sodding, drainage, concrete walls, iron fences, drinking fountains, painting, sewer connections, inlets. Owners will be ready for bids in one week.

Recreation Centre, Twenty-seventh and Clearfield streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Building, 1 story, brick and steel, 1 story, asbestos shingle roof, cement floors, iron work, carpentry, mill work, hardware, grading, terracing, granolithic finish, terra cotta pipe, sidewalks (lighting and plumbing separate bids). Owners will be ready for bids in one week.

Rectory, Twenty-fourth and Wolf streets, Philadelphia. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Holy Ghost Greek Catholic Church, Rev. Andrew Synko, 1931 Passyunk avenue, Philadelphia. Brick, 2½ stories, 18x60 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans completed. Owner will take bids March 10th.

Church, Twenty-fourth and Wolf streets, Philadelphia. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Holy Ghost Greek Catholic Church, Rev. Andrew Synko, 1931 West Passyunk avenue, Philadelphia. Stone and brick, 1 story and basement, 47x119 feet, slate roof, concrete floors, steam heat, electric light, tile work, structural steel, metal lath. Plans completed. Owner will take bids March 10th.

Store (alts. and add.), 2552 Kensington avenue, Philadelphia. Architect, R. R. Neely, 2136 Pine street, Philadelphia. Owner, Louis Snyder, on premises. Lowering floors, new front, brick rear add., 1 story, 10x20 feet, plate glass, metal bulks (heating and lighting reserved). Ready for bids in a few days.

Residence, 186 East Huntingdon street, Philadelphia. Architect, R. R. Neely, 2136 Pine street, Philadelphia. Owner, Louis Snyder, 2552 Kensington avenue, Philadelphia. Brick, 2 stories, 20x50 feet, slag roof, hardwood and pine floors, tile work (hot water heat, electric work and plumbing reserved). Ready for bids in a few days.

Store (alts. new front), Sixth and Market streets, Philadelphia. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owners, Snyder Brothers, on premises. New bulks, 37 feet on Market, 42 feet on Sixth, marble, tile work, hardwood floors, copper bars and cornice. Ready for bids in a few days.

Residence, Somerton, Philadelphia. Architect, Charles S. Parker, 5018 Schuylker street, Philadelphia. Owner, Charles A. Young, care of architect. Hollow tile and frame, 2 stories, slate roof, hardwood floors, hot water heat, electric light, tile work. Ready for bids in a few days.

Sunday School, East Montgomery avenue, near Tulip street, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owners, Atonement German Lutheran Church, care of Rev. W. L. Stough, premises. Brick, stone and steel. Preliminary plans in progress.

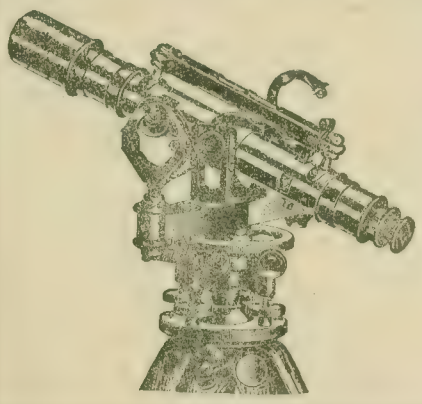
Manufacturing Building, Courtland street, West of A street. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Concordia Silk Co., on premises. Brick, mill construction, 3 stories and basement, 48x120 feet, slag roof, pine floors, cement work, elevators, steam heat, electric light, sprinkler system, radial stack, steel frame. Plans about completed. Architect will take bids March 1st.

Supplies and Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Frank H. Caven, Director, 232 City Hall, Philadelphia. Grading, asphalt paving and repaving, country road improving, grading and improvement of Bensalem avenue branch sewers, asphalt paving mixtures, furnishing and applying bituminous dust layer, furnishing and delivering ready-mixed concrete. Owners taking bids due March 3rd **at noon.**

Jefferson Exchange, Foulkrod and Leiper streets, Frankford, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets. Brick, cut stone, terra cotta and steel, 2 stories, 71x146 feet and 33x54 feet, slag roof, concrete floors, waterproofing, demolition, steam heat, electric light, tile and marble work, hollow metal sash, waterproofing. Owners taking bids due March 9th. Irwin & Leighton, 126 North Twelfth street; Hughes-Foulkrod Co., Commonwealth Building; F. L. Hover & Sons, 1023 Cherry street; John N. Gill & Co., Otis Building; F. W. Van Loon, Perry Building, and Cramp & Co., Denckla Building, Philadelphia, are figuring.

Shop (alts. and add.), 3241 Germantown avenue, Philadelphia. Architect, Stanley B. Vanderslice, Kenilworth Apartments, Philadelphia. Owner, T. E. Millership, on premises. Brick and steel, 2 stories, 70x15 feet, slag roof, pine floors, hot water heat, electric light, plumbing, hollow metal sash, iron work, painting, glazing. Owner taking bids due March 2nd. William R. Dougherty, 1610 Sansom street, is figuring.

Junior High School, Twenty-fourth and Snyder avenue, Philadelphia. Architect, private plans. Owners, Board of Education, J. D. Cassell, Nineteenth above Chestnut street.



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Stores (3) and Residence, Fifth and Lindley avenue. Architect, Peter Kuhn, 3058 North Eighth street. Owner, John Donahue, 4920 North Fifth street. Brick and steel, 2 stories, 16x45 feet and 20x45 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Owner taking bids due as soon as possible. Henry P. Schneider, 3713 Old York road; D. W. O'Doa, 5227 North Fifth street, and H. E. Sweger, 4435 North Uber street, are figuring.

Stores and Apartments, Broad and Nedro avenue, Philadelphia. Architect, private plans. Owner, Joseph Noerpel, 7126 North Broad street, Philadelphia. Brick, 3 stories, 14x68 feet, slag roof, oak and pine floors, metal lath, hot water heat, electric light. Owner taking bids due March 3rd. Specht & Sperry, Heed Building, are figuring.

Warehouse, Northwest Corner Twenty-fourth and Walnut streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Joseph J. Greenberg, Fifteenth and Chestnut streets, Philadelphia. Reinforced concrete and steel, 8 stories. Preliminary plans in progress.

Residences (49) and Stores and Apartments (12), Beaumont avenue, Fifty-eighth to Fifty-ninth street, and Fifty-eighth street, Philadelphia. Owner, John P. Fallon, 5851 Walnut street. Private plans. Brick, 2 stories, 40x15 feet and (12) 16x70 feet, slag roof, hardwood floors, hot water heat, electric lighting, tile work. Owner taking sub-bids due March 1st.

Residences (2), Oak Lane, Philadelphia. Architect, private plans. Owner, name withheld. Stone, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, plumbing, tile work. Albert Dunlap, 7223 Oak aenvue, Oak Lane, is taking sub-bids.

First Deck Offices, Chestnut Street Pier, Philadelphia. Owners, Bureau of Wharves, Docks and Ferries, Bourse, Philadelphia. Electric wiring, water supply and plumbing, steam heating. Owners taking bids due March 6th at noon.

Bath House, Sixtieth and Locust streets, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Philip Glassman, 6047 Locust street, Philadelphia. Brick and structural terra cotta, 3 stories and basement, 72x100 feet, slag roof, composition floors, steam heat, electric light, tile and marble work, rolled steel sash and skylights, (1) elevator, roof ventilators, ornamental iron work. Architects and owner taking sub-bids due March 1st.

Residences (42), Fifty-seventh and Stewart streets, and **Residences (4)**, 1646-52 North Fifty-seventh street, Philadelphia, $169,100. Architect, private plans. Owners, Klaus & Baxter, 1201 South Fifty-eighth street, Philadelphia. Brick, 2 stories, 16x33 feet, 18 feet 5 inches x 40 feet and 15x32½ feet, 12x7½ feet, hot water heat, electric light, slag roof, oak and yellow pine floors. Owners will build.

Residences (8), 18-32 Rex avenue, Philadelphia, $6,000 each. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, R. T. Mitchell & Son, 6322-24 Germantown avenue, Philadelphia. Brick, 2 stories, 18x38½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Manufacturing Building (alts. and add.), 1207 Race street, $14,000. Architect, private plans. Owner, A. E. Martin, on premises. Brick, 3 stories, 20x100 feet, slag roof, yellow pine floors, steam heat, electric light. Owner will build.

Residences (30) and Store and Residence (1), Crittenden and Price streets, and **Residence (1)**, Crittenden and Haines streets, $117,900. Architect, private plans. Owner, Ralph F. Moss, 851 North Sixty-fifth street, Philadelphia. Brick, 2 stories, 18½x32 feet and 16 feet 3 inches x 32 feet, slag roof, hot water heat, electric light. Owner will build.

Dye House (add.), North side Willow street, East of Collins street, $9,000. Architect, private plans. Owners, General Processing Co., on premises. Brick, 1 story, 50 feet 8 inches x 102 feet, slag roof, cement floors, electric lighting. Owner will build.

Y. M. C. A. (alts.), Northwest Corner Thirteenth and Shunk streets, $5,000. Architect, private plans. Owners, Y. M. C. A., on premises. General interior alterations. Owners will build.

Garage, 1900-1902 North Twelfth street, $15,000. Owner, Morris Orlovitz, 1904 North Twelfth street, Philadelphia. Brick, 1 story, 66x90 feet, slag roof, cement floors. Owner will build.

Residences (7), Wister, North of Sixty-fifth; **(6)** Wister, North of Crittenden street, $28,500. Architect, private plans. Owner, Harry H. Heist, Eighteenth and Pike streets, Philadelphia. Brick, 2 stories, 20x32 feet, and (6), 16 feet 5 inches x 32 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Residence and Garage, North side Magee street, West of Oakley street, $3,700. Architect, private plans. Owner, L. H. Bennett, 6323 Palmetto street, Philadelphia. Frame, 2 stories, 26x35 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (4), East side Tulip street, South of Benner street, $2,500 each. Architect, private plans. Owner, O. H. Thompson, 6608 Marsden street, Philadelphia. Brick, 2 stories, 16x28 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Garage, Manning street, near Broad street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Universal Service Motor Corp., 1407 Locust street, Philadelphia. Architects taking

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bids due March 9th. Pierce-Henon Co., Juniper and Pine streets; Kober Const. Co., 34 South Seventeenth street; Frank G. English, 1610 North Carlisle street, Philadelphia, and J. W. Bader, Wilmington, Del., are figuring.

Store (alts. and add.), Sixtieth and Haverford avenue, Philadelphia. Architect, Fred. N. Greisler, 1035 Walnut street, Philadelphia. Owners, Brown Brothers, on premises. Brick, 1 story add., irregular size, slag and tin roof, pine floors, electric work, flush bulks, plate glass. Architect taking bids due March 1st. John J. Morriss, 5909 Haverford avenue; M. F. Lambert, 6228 Haverford avenue; Wittenberg & Chipin, 3 North Nineteenth street; B. & L. Const. Co., 705 Pierce street, and Jacob Gorchov, 4116 Girard avenue, are figuring.

Store and Apartments (alts.), 681-83 North Fifteenth street, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. General interior alterations, pine floors, flush bulks (heating, electric work and plumbing reserved). Architect taking bids due March 3rd. Pierce-Henon Co., Juniper and Pine streets; George H. Uhlers' Sons, 1909 McKean street, and George W. Wagener, 274 South Twentieth street, are figuring.

Show and Stock Room, Eleventh street below Glenwood avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Joseph T. Brown, care of architect. Brick, slow burning, 3 stories, 32x98 feet, slag roof, maple floors, metal lath, elevators, metal ceilings, steam heat, electric light. Architect taking bids due March 9th. H. B. Warner Co., 3243 Germantown avenue; J. Y. Loux, Fifteenth and Hunting Park avenue; Joseph E. Foster, 806 Walnut street; Albert Dunlap, 7223 Oak avenue, Oak Lane; P. Haibach Cont. Co., Twenty-sixth and Thompson streets, and George Detweiler, Eleventh street near Cambria street, are figuring.

Bank and Office Building, 1607 Walnut st., Philadelphia. Architect, Hoffman & Henon, Inc., Finance Building, Philadelphia. Owner, Peace and Cullen, Care of Architects. Brick, cut stone and steel, 2 stories and mezzazine, 40x117 feet, slag roof, pine floors, iron stairs, bond, fopper skylights, tile, marble and terrazo, demolition, (plumbing, elevator, electric work and heating reserved). Architect taking bids due March 9th. Pierce Henon Co., Juniper and Pine Streets; Wm. Steele & Sons, 1600 Arch street; Hughes-Foulkrod Co., Commonwealth Building; F. G. Stewart, 1619 Sansom street, Philadelphia, and J. A. Bader, Wilmington, Del., figuring.

Bank, (alts. and add.), 1512-14 Chestnut street, Philadelphia. Architect, Horace Trambauer, Land Title Building, Philadelphia. Owner, Corn Exchange, Third and Chestnut streets, Philadelphia. Interior alterations and additions. Plans n progress. Too early for details.

Bank Building, Ridge & Midvale avenues, East Falls, Philadelphia. Architect, Paul A. Davis, 3rd., 1713 Sansom street, Philadelphia. Owners, East Falls Bank & Trust Co., 4207 Ridge Ave. Stone and brick, 1 story and mezzanine, 30x119 feet. Plans in progress.

Miscellaneous Work, City of Philadelphia. Architects, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, City of Philadelphia, Department of Public Health, C. Lincoln Furbush, M. D., Director, 584 City Hall. Bureau of Hospital, paving and repaving footway alleys, etc. Bureau of Hospitals, cold storage boxes. Bureau of Hospitals, iron fence, alts. to kitchen building, to social service building, construction, plumbing, heating and electric work. Home for Attendants and Help, same line of work. Owners taking bids due March 10th at noon. Plans for fence and cold storage boxes may be secured at 584 City Hall. Plans for other work from Architects's office.

Sales and Service Building, 1155-57 South Broad street. Architect, Robert E. Pollock, 1802 Chestnut street. Owner, Jos. A. Cunningham, on premises. Bids due at once. Frank G. English, 1610 N. Carlisle street. Wants sub-bids on all lines immediately.

Business Building, (alts. and add.), 237 Market street, Philadelphia. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, name withheld. Architectural terra cotta, 5 stories, 18x166 feet, slag roof, pine floors, (2) elevators, metal ceilings, iron work, flush bulks, rolled steel sash, tile and marble work, steam heat, electric lighting. Plans in progress. Architect will be ready for bids in two weeks.

Recreation Centre, Twenty-sixth and Master streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owner, Department of Public Welfare, Bureau of Recreation, 594 City Hall. Fill, demolition, coping, drains, inlets gutters, terracing, sodding, granolithic finish, concrete work, bond. Lowest bidder: Carter Paving Co., 681 N. Eighteenth street. Inside figure, $2,797; outside, $4,948.

Store, southwest corner Forty-first and Market streets, Philadelphia. $2,500. Architect, private plans. Owner, S. Yellin, 3125 Montgomery Avenue, Philadelphia. Brick, 1 story, 18x65 feet, slag roof, yellow pine floors, electric light. Owner will build.

Residences, (12), (10) East side of Chew street, south of Haines street, and (2), East side of Chew street, south of Rittenhouse street, $5,500 each. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut street, Philadelphia. Brick, 2 stories, 16½x36 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence and Store, Northwest corner 4th and Catharine streets, Philadelphia. $20,000. Architect, private plans. Owner, Jacob Rottman, 4252 Parkside Avenue, Philadelphia. Brick, 3 stories, 16x66 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence, 265 Lindley Avenue, and **Residence and Store**, 267 Lindley Avenue, Philadelphia, $10,600. Architect, private plans. Owners, Bauerle & Nace, 4348 North Eighth street, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, and 16x42 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Stores, (2) South side of Market street, west of Forty-first street, $2,000 each. Architect, private plans. Owner, Samuel Yellin, 3125 Montgomery Avenue, Philadelphia. Brick, 1 story, 16x65 feet, slag roof, yellow pine floors, electric lighting. Owner will build.

Store (alts.), 2540-42 Kensington Avenue, Philadelphia. Architects, Tunis & Genther,

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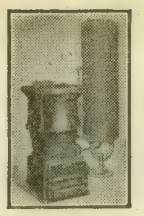
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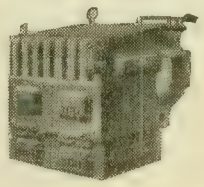
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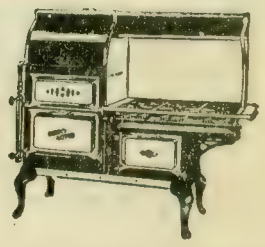
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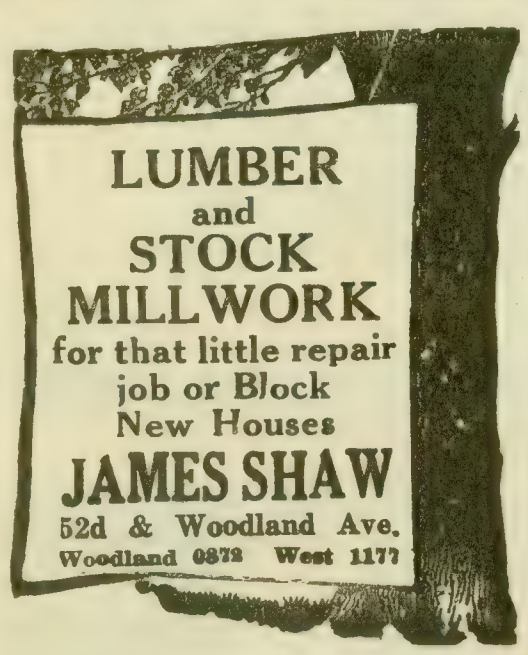
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Real Estate Trust Building. Owner, Max Moskowitz, on premises. Brick, carpentry, millwork, slag roof, pine and oak floors, tile and terrazzo work, plastering, metal lath, painting, glazing, iron work. Architects taking bids due March 3rd. Thos. C. Trafford, Chas. S. A. Booth, 4355 Frankford Avenue; Nelson Pedley Const. Co., 1615 Spruce street; Wm. G. Uhlers' Sons, 1909 McKean street, and Paul Bros., 2511 W. Huntingdon street, figuring.

Garages (2), East Mt. Airy Avenue, Philadelphia. Architects, Tunis & Genther, Real Estate Trust Building. Owner, Leon Katz, on premises. Brick, 1 story, 16x19 feet, slag roof, cement floors. Architects taking bids due March 3rd. Thos. C. Trafford, 1613 Sansom street; Chas. S .A. Booth, 4355 Frankford ave.; Nelson Pedley Const. Co., 1615 Spruce street; Wm. G. Uhlers' Sons, 1909 McKean street, Paul Bros., 2511 W. Huntingdon streets, figuring.

Bulks, Sixth and Market streets, Philadelphia. Architect, R. R. Neely, 2136 Pine st., Philadelphia. Owners, Snyder Bros., on premises. Architect taking bids **due March 4th.** Penn Const. & Eng. Co., 3840 Spring Garden street; E. H. Keefer & Son, 1321 Rodman street; Raymond Rilling, Venango street, near 15th street; Chas. P. Clark, 3635 Germantown ave., Pierce Henon Co., Juniper and Pine streets; Albert Moorehead, 67 Laurel street, and G. Thos. Halloway, 5433 Spring street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office Building, Eleventh to Quince and Locust streets, $275,000. Architect, Willis Bosworth, New York City. Engineers, Stone & Webster, Boston, Mass. Owners, Western Union Telegraph Co., Fifteenth and Chestnut streets. Brick, granite, concrete and steel, 4 stories, 140x126 feet, arcade, 2 stories, 18x62 feet, slag roof, cement and wood block floors, hollow tile, metal lath, elevator doors, roof ventilators metal weather strips, dampproofing, iron work, floor hardener, bond, hollow metal doors, rolled steel skylights, hollow metal sash, tile and terrazzo. Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

Residence, Cottman and Whitaker streets, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Dr. Asa H. Rogers, 911 West Allegheny avenue. Frame and stucco, 2½ stories, 23x38 feet, shingle roof, pine and hardwood floors, cement work, tile work. Contract awarded to Jacob Y. Loux, Fifteenth and Hunting Park avenue.

Stores (10), Offices and Apartments, Orthodox and Paul streets. Architect, Edward L. Rothchild, 1420 Chestnut street, Philadelphia. Owners, Drs. Joseph A. and Edward H. Thompson, 2118 Orthodox street. Brick, 3 stories, 148x69 feet, slag roof, hardwood and pine floors, steam heat, electric light, tile and marble work, hollow metal sash and skylights, plate glass, store fixtures, metal ceilings, water heaters, plumbing. Contract awarded to T. Wilkinson, 3639 North Ninth street, Philadelphia.

Building (alts.), 712-14 Sansom street, Philadelphia, $10,000. Architect, Fred. N. Greisler, 1035 Walnut street, Philadelphia. Owner, name withheld. General interior alterations. Contract awarded to B. & L. Const. Co., 705 Pierce street, Philadelphia.

Shop (add.), 1825 North Fifth street, $4,000. Owner, William Jahnke Estate, premises. Private plans. Brick, 1 story, 40x20 feet, slag roof, electric lighting. Contract awarded to Connor & Lotz, 3621 North Fifth street, Philadelphia.

Office Building and Shop, 3318-20-22 Lancaster avenue. Architect, private plans. Owners, Philadelphia Steam Heating Co., Juniper and Arch streets, Philadelphia. Brick and cut stone, 2 and 1 stories, 51x123 feet, reinforced concrete work, limestone, slag and tin

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roof, cement floors, metal lath and ceilings, ornamental iron work and stairs, bond, rolled steel sash and skylights, demolition (heating, light and plumbing reserved). Contract awarded to George H. Evans, Inc., 109 North Thirteenth street, Philadelphia.

Office Building, Boiler Room and Garage, Northwest Corner Cedar and Tioga streets, Philadelphia. Architect, Frank A. Hahn, 1112 Chestnut street, Philadelphia. Owners, Jacob Stern & Sons, 428 North Third street. Brick, cut stone, 1 story, 62x22 feet, wing 34x36 feet, Carey roof, pine and cement floors, steam heat, electric light, metal ceilings, dampproofing, ornamental iron work. Contract awarded to H. Seidman, 5009 B street, Philadelphia.

Sunday School, Ontario and H streets, Philadelphia, $40,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Ontario Presbyterian Church, on premises. Brick and stone, 2 stories, 95x48 feet, slag roof, pine floors, steam heat, electric lighting, iron work. Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Store and Apartments, Twenty-seventh and Girard avenue, Philadelphia. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, Joseph Katzman, on premises. Brick, reinforced concrete, 3 stories, 18x77 feet, slag roof, composition and hardwood floors, hot water heat, electric lighting, tile and marble work, metal lath and ceilings, ornamental iron work. Contract awarded to M. Yellin, 725 North Franklin street, Philadelphia.

Garage, 808 Carpenter street, Philadelphia, $3,000. Architect, John Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, Anthony Arnao, 824 Catherine street. Brick, 1 story, 24x102 feet, slag roof, cement floors, general alterations. Contract awarded to R. Parisi, 1332 South Tenth street, Philadelphia.

Boiler House, Stack and Tank, Northwest Corner Fifth and Annsbury streets, $75,000. Architect, private plans. Owner, Oscar Nebel, 3860 Coral street, Philadelphia. Brick, 1 story, 52x59½ feet, slag roof, cement floors, electric light, steel sash, skylights. Contract awarded to Henry P. Schneider, 3713 Old York road.

Residences (5), West side Sixty-third street, North of Woodland avenue, and **(1)** North side Chelwynde avenue, West of Seventy-fifth street, $15,850. Architect, private plans. Owner, M. J. Nashlick, 1325 South Thirty-sixth street, Philadelphia. Brick, 2 story, 16x32 feet, 15x44 feet, 15x26 feet, 12x14 feet and 16x42 feet, slag roof, oak floors, electric work, hot water heat. Contract awarded to A. Slovik, 2718 Ann street, Philadelphia.

Residence (2-family), Northwest Corner Seventh and Jackson streets, $14,000. Architect, private plans. Owner, L. Mansky, 1924 South Seventh street, Philadelphia. Brick, 3 stories, 17x76 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Contract awarded to M. Lasse, 603 Wolf street, Philadelphia.

Residence, Southeast Corner H and Ontario streets, Philadelphia, $6,500. Architect, private plans. Owner, John Hartley, Northwest Corner H and Ontario streets, Philadelphia. Brick, 2 stories, 20x34 feet, slag roof, oak and yellow pine floors. Contract awarded to Harold E. Miller, 2528 Coral street, Philadelphia.

Residence and Store (alts. and add.), 2813 Wharton street, $3,200. Architect, private plans. Owner, J. Baxman, 3002 Wharton street, Philadelphia. Brick, 2 stories, 14x11 feet, slag roof, electric light. Contract awarded to Jacob Schechter, 526 Mifflin street, Philadelphia.

Workshop, West side Tulip street, South of Bleigh street, $3,500. Architect, private plans. Owner, W. S. Underwood, 7016 Vandyke street, Philadelphia. Brick, 2 stories, 56x26 street, slag roof, hot air heat, electric light, cement floors. Contract awarded to A. W. J. Williams, 3011 Linden avenue, Philadelphia.

Residence and Store (add.), 5715 Chester avenue, $2,900. Architect, private plans. Owner, G. H. Burton, on premises. Brick, 1 story, 16x20 feet, slag roof, yellow pine floors. Contract awarded to John T. Sanders, 4411 Sansom street.

Residences (6), 4904-06-08-10-12-14 Saybrook avenue, $2,600 each. Owner, Francis Smith, 4021 Pine street, Philadelphia. General interior alterations. Contract awarded to M. W. Richey, 734 South Fiftieth street, Philadelphia.

Residence and Store (alts. and add.), 3041 Hemberger street, $2,500. Owner, Antonio Virdi, on premises. Brick, 2 stories, 14½x29 feet and 35 feet x irregular, slag roof. Contract awarded to Gatino Salvato, 3001 Bonsall street, Philadelphia.

Shops (2), Southwest Corner Thirty-sixth and Gray's Ferry road, $18,000. Owners, The Barrett Co., on premises. Iron, 1 story, 55x113 feet and 60x100 feet. Contract awarded to Roy A. Robinson, Parker and Umbria streets.

Garage and Storage, 804-06 South Twelfth street, Philadelphia, $9,000. Architect, private plans. Owner, Frank Casino, 754-65 South Twelfth street, Philadelphia. Brick, 2 stories, 36x85 feet. Contract awarded to Dominick Iero, 519 Christian street, Philadelphia.

Grading and Repaving, Philadelphia, $84,785.55. Owners, Department of Public Works, Frank H. Caven, City Hall. Kensington avenue, from Ontario street to Frankford Creek. Contract awarded to M. J. McCrudden, Real Estate Trust Building.

Paving, Philadelphia, $4,342.95. Owners, Department of Public Works, Frank H. Caven, Director, City Hall. Vitrified brick paving, Kenyon street, School Lane to Armat street. Contract awarded to Fish Rutherford Co., Real Estate Trust Building.

New Deck, Wyoming Avenue Bridge over Tacony Creek, $36,910. Owners, City of Philadelphia, Department of Public Works, Frank H. Caven, Director, City Hall, Philadelphia. Contract awarded to Jackson & Co., 119 South Fourth street, Philadelphia.

Curb and Footway Work, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Frank H. Caven, Director, City Hall, Philadelphia. First District, $32,189; contract awarded to J. Bellano, 5435 Westminster avenue, Philadelphia. Second District, $16,292; contract awarded to J. Joseph McHugh, 1617 Race street, Philadelphia. Third District, $19,083; contract awarded to M. & J. B. McHugh, Bridge and Penn streets. Fifth District, $37,719; contract awarded to M. & J. B. McHugh, Bridge and Penn streets. Sixth District, $6,899; contract awarded to M. & J. B. McHugh, Bridge and Penn streets.

Store and Residence, 3034 Kensington Ave., Philadelphia, $3,000. Architect, private plans. Owner, A. Wiener, on premises. General interior alterations. Contract awarded to Frank & Keyser, 1522 South Sixth street, Philadelphia.

Garage, Sprague and Dorset streets, Philadelphia, $12,000. Architect, private plans. Owner, Edward Swift, on premises. Brick, 1 story, 50x100 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to L. W. Kitselman, 125 E. Upsal street, Philadelphia.

PENNSYLVANIA
Construction News

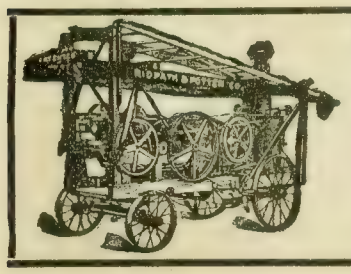
Nurses' Cottage and Cottage No. 4, Laurelton, Pa. Architect, George S. Idell, 1705 Chestnut street. Owners, Board of Managers, Pennsylvania Village for Feeble-Minded Women, Oliver W. H. Glover, acting president, Laurelton, Pa. Stone and steel, 2½ stories, and 3½ stories, slate roof, cement and pine floors. Revised plans in progress. Will be ready for bids in two weeks.

Manufacturing Plant, Sandts Eddy, Northampton Co., Pa. $1,500,000. Architect, private plans. Owners, Bath Portland Cement Co., Fred B. Franks, second vice-president, Bath, Pa. Concrete and steel. Plans in progress. Owners will take bids in one month.

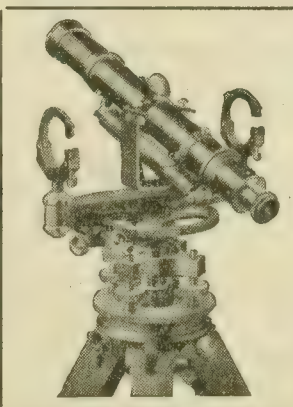
Residence and Garage, Wrightsville Pike, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owner, M. H. Haines, East Philadelphia street, East York, Pa. Brick, stucco, 2½ stories, 110x32 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Plans in progress.

Residence and Garage, Lincoln Drive, York, Pa. Architects, Gimmell & Billmeyer, Rossmiller Building, York, Pa. Owner, J. S. Secrist, York, Pa. Stone, 1½ and 1 stories, 55x85 feet and 20x30 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work. Plans in progress.

Residence, Lansdale, Pa., $7,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Miss Gertrude Stringer, North Wales, Pa. Brick, as-



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bestos roof, wood floors, hot water heat, tile work. Plans in progress.

Residence, Mifflentown, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, Dr. G. E. Wian, on premises. Brick, 2 stories, 30x40 feet, hardwood floors, vapor heating, electric lighting, tile work. Plans in progress. Owner will take bids.

Residence (twin), Walnut street, North Wales, Pa., $6,000. Architect, M. B. Bean, Lansdale, Pa. Owners, R. Griner & Bro., 3416 North Mascher street, Philadelphia. Brick, 32x36 feet, 2 stories, hot water heat, electric light, plumbing. Plans in progress.

Residence, West Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, G. H. Rader, Reading Abattoir Co., Reading, Pa. Brick, 2½ stories, 30x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will take bids in one week.

Apartments (add.), Bala, Pa. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owner, Mrs. Kendrick, on premises. Stone, 3 stories, 12x20 feet and 17x30 feet, slag roof, hardwood floors (heating and electric work extensions). Ready for bids in a few days.

Building (alts.), Main street, Conshohocken, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, Spencer Jones, Conshohocken, Pa. Frame, 15x12 feet, tin roof, wood floors, steam heating. Owner taking bids.

Residence (alts. and add.), Laurel Hill, Berks County, Pa. Architect, Alexander Smith, Berks County Trust Building, Reading, Pa. Owner, George Edmundson, Reading, Pa. Frame, shingle roof, hardwood floors, hot air heat, electric light, general alterations. Architect ready for bids due March 7th.

High School, Wayne, Pa. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, School Board of Radnor Township, Wayne, Pa. Brick and steel, 2 stories, 66x130 feet, slag roof, maple floors. Architect taking bids due March 11th. Cramp & Co., Denckla Building; Wark Co., 231 South Broad street; Wills, Bill Co., 1706 Sansom street; H. H. Wehmeyer, 509 West Cumberland street; Charles McCaul Co., 1619 Sansom street; J. B. Kelly, 2813 Walnut street; William Linker, 735 Cherry street; Sinclair & Grigg, Medical Arts Building; George H. Evans, Inc., 109 North Thirteenth street; Victor Gondos, Franklin Trust Building, Philadelphia, and Charles W. Strayer, Harrisburg, Pa., are figuring.

Theatre, Stores, Offices and Apartments, Mt. Carmel, Pa., $200,000. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Chamberlain Amusement Co., Shamokin, Pa. Brick, steel, concrete and terra cotta, 3 stories, 100x150 feet. Architect taking bids due March 15th at noon. J. S. Rogers Co., Drexel Building; John R. Wiggins Co., Eighteenth and Cherry streets; P. H. Kelly Cont. Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street, Philadelphia; H. A. Moore, Milton, Pa.; E. R. Bastress, Mt. Carmel, Pa.; Morse & Lewis, Mt. Carmel, Pa.; Shamokin Lumber & Const. Co., Shamokin, Pa.; East End Lumber & Const. Co., Shamokin, Pa.; P. N. Swank, Tamaqua, Pa., and R. T. & C. D. Stewart, Easton, Pa., are figuring.

Church, Johnstown, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Church of the Brethren, Somerset street, Johnstown, Pa. Brick, stone, 1 story and basement, 60x135 feet, concrete foundations, slate roof, maple floors, steam heat, electric light. Owners ready for bids due March 17th. Central Const. Co., Harrisburg, Pa.; Hostetter & Dorr, Somerset, Pa.; Gilpatrick-Davison Co., Hofecker & Thiele, Berkebile Brothers and William H. Smith & Sons, Johnstown, Pa., are figuring.

School (add.), Darby, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Roman Catholic Church of the B. V. M., Rev. William A. Fitzgerald, Darby, Pa. Brick, cut stone and steel, 2½ stories, 57x11 feet, slate roof, pine floors, demolition (heating, electric work and plumbing reserved), Bond, pine floors. Architect taking bids due March 2nd. William R. Dougherty, 1610 Sansom st.; A. R. Alessi, Darby, Pa.; Edward Fay & Son, 2 S. Mole street; Conneen Const. Co., 10 South Eighteenth street; Stang & Mitchell, Real Estate Trust Building; Sutton & Stephenson, 1317 Washington avenue, and Frank Shuler, Norristown, Pa., are figuring.

Theatre, Lansford, Pa. Architects, John T. Simpson, Inc., Essex Building, Newark, N. J. Owners, Panther Valley Amusement Co., care of architect. Brick, steel, 1 story, 50x160 feet, Johns Manville roof, reinforced concrete and steel floors, electric light, tile and marble work, rolled steel sash, kalamein doors, ornamental plaster. Architect taking bids. Beard Const. Co., 658 Penn street, Reading, figuring.

Residence (alts.) to Apartment and Store, 222 North Sixth street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, J. M. Beaver, 123 North Sixth street, Reading, Pa. Mill work, partition work, general interior work, tile and marble work, new heating. Owner taking bids and sub-bids. Beard Const. Co., 658 Penn street, Reading, Pa., figuring.

Residences (2), Madison avenue, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Harbolt & Myers, 328 East Princess street, York, Pa. Brick, 2 stories, 36x48 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect taking bids due March 11th. G. W. Gilbert, Mason and Park avenue; S. Gladfelter, Hess Brothers and I. Reindollar, all of York, Pa., are figuring.

Residence and Store (add.) and Garages (2), Sixteenth and Perkiomen avenue, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Fred. Sell, on premises. Brick, 1 story, 11x15 feet add., garages, 16x12½ feet each, tin roof, hardwood floors, electric light, concrete floors, plate glass, general alterations. Owner will sub-let.

Garage and Stock Lumber Shed, Walnut and Thorn streets, Reading. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Central Lumber Co., care of W. Kessler, 234 Walnut street, Reading, Pa. Concrete, cement, plaster, 2 stories, 100x40 feet, Johns Manville roof, concrete and wood floors, steam heat, electric light, metal lath. Plans in progress. Owner will sub-let.

Store (alts.), Main street, Lansdale, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, Samuel Neiburg, Lansdale, Pa. Brick, stone foundations, composition roof, steam heat, marble work, iron girders, sheetrock wall board. Architect taking sub-bids.

Residences (8), Fifth street, Lansdale, Pa. Architect, M. B. Bean, Lansdale, Pa. Owners, A. S. Tyson & Son, Lansdale, Pa. Brick, 2 stories, 16x37 feet, composition roof, pipeless heating, electric lighting. Owner taking sub-bids.

Roadway Paving Repairs, Chester, Pa. Owners, City of Chester, Superintendent of Streets and Public Imp., City Hall, Chester, Pa. Granite block, vitrified block, asphalt and bituminous paving. Owners taking bids due March 7th at 2 P. M.

Residence, Telford, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Allen Godshall, Telford, Pa. Brick, 2½ stories, slate roof, pine floors, hot water heat, electric light. Owner taking bids.

Eastern Mennonite Home, Souderton, Pa., $35,000. Architect, Jerome S. Landes, Souderton, Pa. Owner, Mennonite Church, care of John Nice, Souderton, Pa. Brick, 2½ stories, various sizes, slate roof, mineral and pine floors, hot water heat, electrc light, dumb waiters, fire doors. Owner taking bids.

Residence and Garage, Souderton, Pa., $10,000. Architect, Jerome S. Landes, Souderton, Pa. Owner, L. D. Wildenger, Souderton, Pa. Hollow tile and stucco, 2½ stories, 28x34 feet and 16x20 feet, asbestos shingle roof, mineral and pine floors, hot water heat, electric light. Owner taking bids.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, C. T. Ross, 1117 Market street, Harrisburg, Pa. Tile, stucco, 2½ stories, 32x36 feet, tile roof, hardwood and tile floors, steam heat, electric light. Plans in progress.

Residence, Front and Emerald street, Harrisburg, Pa. Architect, Laurie & Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, W. L. Forry, 37 North Third street, Harrisburg, Pa. Stone, 2 stories, 25x60 feet, and 25x30 feet, tile roof, hardwood and composition floors, vapor heat, electric light, tile work work. Plans in progress.

Church, Penbrook, Pa. Architect, Laurie & Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, United Brethren Church, Rev. Schaeffer, Penbrook, Pa. Stone, 1 story, and basement, 60x90 feet, slate roof, pine floors, steam heat, electric light, tile work. Plans in progress.

Residence, Race Avenue, Lancaster, Pa. Architect, J. B. Harmon, 48 N. Queen street, Lancaster, Pa. Owner, H. H. Dorwart, 240 Elm st., Lancaster, Pa. Hollow tile and stucco, 2½ stories, 38x30 ft., shingle roof, hardwood floors, hot air heat, electric light. Owner will sub-let.

Residences (14), Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Victory Building Association, Souderton, Pa. Brick, 2½ stories, 16x42 feet, asbestos or slate roof, pine floors, pipeless heat, electric light. Preliminary plans in progress.

Residence, Pennsburg, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Wilson Wisler, Trumbauersville, Pa. Brick, 2 stories, 28x38 feet, asbestos shingle roof, oak and pine floors, hot water heat, electric light. Plans in progress.

Factory Building, Perkasie, Pa., $30,000. Architect, Jerome S. Landes, Souderton, Pa. Owner, S. M. Schwenk, Perkasie, Pa. Brick and concrete, 2 stories, 50x120 feet, slag roof, maple floors, steam heat, electric light. Plans in progress.

Residence, Harleysville, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner,

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S. D. Landis, Harleysville, Pa. Brick, 2½ stories, slate roof, pine floors, hot water heat, electric light. Plans in progress.

Private Garage, Lansdale, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Dr. H. O. Williams, Lansdale Pa. Stone and brick, 1½ stories, 22x28 feet, stone foundation, glazed tile roof, cement floors, hot water heat, electric light. Plans in progress.

Bungalow and Garage, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Oliver Endy, Souderton, Pa. Brick, 2 stories, 26x28 feet, garage, 20x22 feet, slate roof, pine floors, hot water heat, electric light. Plans in progress.

Consolidated School Building, Montgomery ville, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, School District of Montgomery Township, Montgomeryville, Pa. 1 story, slag roof, pine and mineral floors. Too early for details.

Residence, Glenside, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, E. Nelson Weir, Glenside, Pa. Stone, 2½ stories, 37x27 feet, shingle roof, oak and pine floors, tile work, bond, (heating, electric work and plumbing reserved.) Architect taking bids due March 7th. A. Zellfelder, 151 South Broad street; Specht & Sperry, Heed building; D. A. McClelland Const. Co., Drexel Building, and Jacob Y. Loux, Fifteenth and Hunting Park avenue, are figuring.

Residence, Penfield, Del. Co., Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Josef Cisar, 5853 Rodman street, Philadelphia. Frame and stucco, 2½ stories, 28x43 feet, shingle roof, hardwood and pine floors, hot air or hot water heat, electric lighting, tile work. Architects are ready for bids.

Apartments (add.,) Bala, Pa. Architect, R. R. Neely, 2136 Pine street, Philadelphia. Owner, Mrs. Kendricks, on premises. Brick, 2 stories, 12x20 feet, and 17x30 feet, slag roof, hardwood floors. Architect taking bids due as soon as possible. J. Jones Davies, 652 North 17th street; K. G. Hickey, 1114 S. 52nd street, and Andrew Const. Co., care of Architect, are figuring.

Miscellaneous Supplies and Work, Northside, Pittsburgh. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Board of Inspectors, Western Penitentiary, Northside, Pittsburgh, Pa. John Francis, Superintendent of Construction. Lumber for concrete forms and scaffolds, wood mouldings, 20,000 barrels of portland cement, 925,000 more or less of reinforcing bars reinforcing bar accessories, metal heating and vent. ducts, show metal boxes to form air spaces in concrete walls, skylights and vent. (erected) louvres, kalamein covering of mouldings, electric materials, anchorage only for balcony enclosures, pipe and fittings. Owners taking bids due March 14th at noon.

Residence, (alts. and add.), Hatfield, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Vincent Schlosser, Hatfield, Pa. Frame and stucco, 2½ stories, 18x38 feet, asbestos shingle roof, pine floors, hot water heat, electric light. Owner taking bids.

Grade School, Telford, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, W. Telford Board of Education, Telford, Pa. Brick, 2 stories, 46x60 feet, slate roof, pine floors, electric light, fire doors, roof ventilators, metal window guards. Plans in progress.

Theatre, Stores and Office, Quakertown, Pa. $80,000. Architect, Jerome S. Landes, Souderton, Pa. Owner, Louis S. Keller, Quakertown, Pa. Brick, 1 and 2 stories, 60x133 feet, slag roof, concrete, terrazzo and wood floors, steam heat, electric light, terrazzo work. (Organ, seats and lighting fixtures reserved.) Owner will take bids in about three weeks.

Church, (remodeling), Perkasie, Pa., $10,000. Architect, Jerome S. Landes, Souderton, Pa. Owner, Trinity Evangelical Lutheran Congregation, Rev. Norman Ritter, Perkasie, Pa. Rolling partitions, steel work, painting, stained glass, mineral floors. Owner ready for bids.

Twin Residence, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Isaac Detwiler, Souderton, Pa. Brick, 2½ stories, 36x43 feet, stone foundation, abestos shingle roof, pine floors, hot water heat, electric light. Owner taking sub-bids.

Garage and Show Room, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Ralph Weast, 1954 Bellevue Avenue, Harrisburg, Pa. Brick, steel, 2 stories, 32x60 feet, metal roof, composition floors, electric lighting. Owner will sub-let.

Residence, (alts. and add.), Philadelphia Pike, Lancaster, Pa. Architect, H. Y. Shaub, Imperial BuildingI, Lancaster, Pa. Owner, J. W. Eckenrode, 48 N. Queen street, Lancaster, Pa. Brick, 2 stories, 15x20 feet, porches, slate roof, hardwood floors, hot air heat, electric light, tile work, general interior alterations. Plans in progress.

Apartment, (alts. and add.), Walnut st., Lancaster, Pa. Architect, J. B. Harmon, 48 Queen street, Lancaster, Pa. Owner, Manuel J. Eby, Lancaster, Pa. Brick, 3 stories, irregular size, new partitions, hardwood floors, electric light, tile work, plumbing, general interior work. Plans in progress.

Bank, Lititz, Pa. Architect, C. M. Urban, Woolworth Building, Lancaster, Pa. Owner, Lititz Spring National Bank, G. Grabell, President, Lititz. Granite, 1 story, 30x62 feet, flat roof, tile floors, hot water heat, electric light, marble work. Architect will take bids next week.

Apartment, Evergreen street, Harrisburg, Pa. Architect, T. H. Hamilton, 11 N. 2nd street, Harrisburg, Pa. Owner, C. L. Conover, 111 Evergreen street, Harrisburg, Pa. Brick, 3 stories, 30x56 feet, composition roof, hardwood floors, vapor heat, electric light. Architect ready for bids due March 10th.

Church, Mowersville, Franklin Co., Pa. Architect, R. R. Markley, 921 Market street, Harrisburg, Pa. Owner, United Brethren, Carl Munder, Newberry, Pa. Brick, 1 story, 45x60 feet, slate roof, yellow pine floors, steam heat, electric light, metal lath. Owner ready for bids.

Garage and Sales Room, 342-48 S. Cameron street, Harrisburg, Pa. Architect, W. W. Johnston, 7 N. Front street, Harrisburg, Pa. Owner, Dauphin Motor Car Co., E. C. Allen, 24 South River street, Harrisburg. Brick and concrete, 1 story, 50x150 feet, slag roof, concrete and hardwood floors, steam heat, electric light. Architect and owner subletting.

Residence and Garage, 2nd and Shamokin streets, Harrisburg, Pa. Architect, Private plans. Owner, Ritchie-Lawrie, CotterelEbner Building, Harrisburg, Pa. Brick, and stucco, 2½ stories, 30x76 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Owner will sub-let.

Pennsylvania Contracts Awarded

Office Building, Reading, Pa. Architects, Lockwood-Greene & Co., 60 Federal street, Boston, Mass. Owners, J. Bancroft & Sons Co., Reading, Pa. Concrete, steel and brick, 3 stories, 400x50 feet, Barrett roof, pine and maple floors, electric light, metal lath, rolled steel sash. Contract awarded to L. H. Focht & Sons, Baer Building, Reading, Pa.

Bank, Oley, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, First National Bank of Oley, J. M. Bertolet, Oley, Pa. Stone or terra cotta, 1 story and basement, 32x58 feet, Johns Manville roof, tile and reinforced concrete floors, tile and marble work. Contract awarded to L. H. Focht & Sons, Baer Building, Reading, Pa.

Residence and Garage, East Spring and Gettysburg avenue, York, Pa. Architect, R. A. Stair, Jr., Guarantee Trust Building, York, Pa. Owner, Charles H. Noos, 348 West King street, York, Pa. Brick, 2½ stories, 40x30 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Hess Brothers, 224 South Hawthorne street, York, Pa.

Service Station, Lancaster pike and Lee avenue, Bryn Mawr, Pa., $9,000. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, E. H. Le Boutillier, Edgewood, Pa. Brick, limestone and steel, 1 story, 57x50 feet, slag roof, cement floor, metal lath, rolled steel sash, copper skylights, bond, plate glass, iron work. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Alts. to Store and New Store Building, Glenside, Pa. $10,000. Architect, Seeburger & Rabennold, 1524 Chestnut street, Philadelphia. Owner, Harry Renninger, Glenside, Pa. Brick, and steel, 2 stories, 16x50 feet, slag roof, oak and pine floors, copper bulks, plate glass. Contract awarded to A. Zellfelder, 151 South Broad street, Philadelphia.

Residence, Lansdowne, Pa. Architect, R. R. Neely, 2136 Pine street, Philadelphia. Owner, Wallace Bostick, care of Architect. Brick, frame and stucco, 2½ stories, 25x42 feet, shingle roof, pine floors, hot air heat, electric lighting, tile work. Contract awarded to K. G. Hickey, 1114 South Fifty-second street, Philadelphia.

Residence (6 Twin) Lansdale, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Lansdale Building and Improvement Co., Lansdale, Pa. Hollow tile and stucco, slate roof, pine floors, pipeless heating. Contract awarded to Wm. Lukens, North Wales, Pa.

Junior High School, Monesson, Pa. Westmoreland Co. Architect, J. Merwin Beall & Son, Monesson, Pa. $300,000. Owners, Board of Education, Monessen, Pa. Brick and steel, 2 stories, 200x126 feet, asphalt roof, cement, maple, composition, cork, tile, and linotile floors, metal lath, metal window guards, waterproofing, terra cotta, steel doors, hollow metal skylights, tile, marble and terrazzo work, (heating, lighting and plumbing reserved.) Contract awarded to P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia.

School, Bitnerville, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Lancaster Township School Board, Kirk Johnson, President, Lancaster, Pa. Brick, 2 stories, 40x93 feet, slag roof, yellow pine floors, hot air heat, electric light, roof ventilators. Contract awarded to Jacob T. Snyder, Slorin, Pa.

Factory, West East street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Dudley Watch Co., care of architect. Brick, steel, 2 stories and basement, 40x120 feet, slag roof, pine floors, electric light, rolled steel sash. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster.

New Jersey Construction News

Residence, West Collingswood, N. J. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owner, George Shepparo, care of architect. Hollow tile and stucco, 2 stories, 22x33 feet, slate roof, hot water heating, elec-

tric lighting, tile work, hardwood floors. Plans in progress.

Club House, Grand and Beatty streets, Trenton, N. J., $30,000. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Polish Gym. Society, Sokol Club, care of architect. Brick, 3 stories and basement, 25x95 feet, concrete foundations, slag roof, hardwood floors, steam heat, electric light, tile work, metal lath, rolled steel skylights, fire doors, safety treads, roof ventilators, waterproofing, ornamental iron work. Plans in progress.

Store and Residence, South Broad street, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, W. A. Smith, South Broad street, Trenton, N. J. Brick, 2 stories, 15½x80 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, copper work, metal ceilings. Plans in progress.

Court House (alts.), Camden, N. J. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Camden County Board of Freeholder, James F. Walton, chairman, Building Committee, Court House, Camden, N. J. Changes in offices, removing old roof, providing new promenade tile roof, repointing terra cotta balustrade, and miscellaneous repairs. Owners taking bids due March 4th at 11 A. M.

Manufacturing Building, Camden, N. J. Architects, Ballinger & Co., Twelfth and Chestnut streets, Philadelphia. Owners, J. B. Van Sciver Co., Camden, N. J. Reinforced concrete, 7 stories, 220x60 feet and 60x100 feet, slag roof, concrete floors, cork insulation, wood block paving, metal lath, hollow tile, safety treads, waterproofing, dampproofing, structural steel, hollow steel doors, rolled steel sash, marble and terrazzo work. Architects taking bids due March 15th. P. H. Kelly Cont. Co., 1713 Sansom street; Wark Co., 231 South Broad street; Hughes Foulkrod Co., Commonwealth Building; Barclay White Co., 1713 Sansom street; White Const. Co., Widener Building; F. M. Harris & Co., 1620 Parrish street; Turner Const. Co., 1713 Sansom street; J. S. Rogers Co., Drexel Building; Irwin & Leighton, 126 North Twelfth street, and Cramp & Co., Denckla Building, Philadelphia, are figuring.

Church (alts. and add.), Pitman, N. J. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owners, Pitman Baptist Church, care of architect. Concrete block, 1 story, 28x56 feet and 28x28 feet, steam heat, electric light, pine floors. Architect taking approximate bids due March 9th. A. S. Hoffman, Pitman, N. J., figuring.

Residence and Garage, Margate City, N. J. Architect, private plans. Owner, Daniel Sullivan, Thirteenth and Venango streets, Philadelphia. Hollow tile and stucco, 2½ stories, 24x48 feet and 18x28 feet, asbestos shingle roof, oak and pine floors, hot water heat, electric lighting. Owner taking bids due March 4th. Lam Building Co., 1001 Wood street, and H. G. Campion, Otis Building, Philadelphia, are figuring.

Interior Storage Room for Gas Cells, Lakehurst, N. J. Cont .No. 4580. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Hollow tile, concrete fill on metal lath, 27x500 feet, 13 feet high, concrete floors, steam heat, electric lighting, metal clad doors. Owners taking bids due March 8th. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, and Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Residence, Hanover and Camden streets, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, H. W. Reynolds, 176 West State street, Trenton, N. J. Brick, 3 stories, 19x72 feet, slate and tin roof, hardwood floors, hot water heating, electric lighting, tile work. Architect will take bids.

Stable and Store Room, Newark, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Capitol Building, Trenton, N. J. Owners, New Jersey State Military Board, Colonel Balentine, Newark, N. J. Brick and frame, 2 stories, 20x60 feet, slag roof, concrete and pine floors, electric light, roof ventilators. Owner taking bids.

Store and Apartments, Atlantic Avenue, between Windsor and Richmond streets, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Chas. Kline, Atlantic City, N. J. Brick, steel and stone, 3 stories. Architect taking bids due as soon as possible. Lam Building Co., 1001 Wood street, Philadelphia, is figuring.

Bank, (alts.), Camden, N. J. Architect Henry A. Macomb, Merchantville, N. J. Owner, Camden National Bank, Camden, N. J. Brick, granite and terra cotta, 1 story, 70x16 feet, slag roof, maple floors, roof ventilators, steam heat, electric lighting, marble work, iron work. Owners taking bids. Barclay White Co., 1713 Sansom street, Philadelphia, are figuring.

Store and Apartments, 2324 Atlantic Ave., Atlantic City, N. J. Architect, Wm. S. Hewitt, Guarantee Trust Building, Atlantic City. N. J. Owner, Julius Byron, on premises. Brick, 3 stories, 21x85 feet, slag roof, pine floors, hot water heating, electric lighting, tile work. Architect taking bids due as soon as possible. Lam Building Co., 1001 Wood street, Philadelphia, figuring.

New Jersey Contracts Awarded

Meat Packing Plant, Pleasantville, N. J., $100,000. Architect, E. B. Comstock, 110 West Fortieth street, New York City. Owners, Taylor Packing Co., care of N. Taylor, Vermont and Melrose avenues, Atlantic City, N. J. Reinforced concrete, 2½ stories, 60x145 feet, slag roof, brick floors, cork insulation, electric lighting. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Miscellaneous Construction News

Convent, Wilmington, Del. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, Ursuline Nuns, Wilmington, Del. Brick, stone and stucco, 3 stories, 130x62 feet, slate roof, hardwood floors, vapor heating, electric lighting, tile and marble work. Plans about completed. Architect will be ready for bids in one week.

Motor Truck Plant, Fort Wayne, Ind. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, International Harvester Co., Fort Wayne, Ind. Plaster, tile and steel, saw-tooth building, 1 story, multi-story building, power plant, offices. Plans in progress. Details undecided. Will take bids in one month.

We'll *write* your advertising without charge. All we ask is that you pay for the space and provide our ad. man with the necessary selling pointers.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 24, 1922. Sealed proposals will be opened in this office at 3 P. M., March 24, 1922, for construction (except mechanical equipment) of four new buildings and certain remodeling of seven present buildings; also separate proposals for mechanical equipment of four new buildings and new heating, plumbing and wiring systems, or extension of present systems in twelve present buildings, and certain outside services, at the United States Quarantine Station, Hoffman Island, New York. Drawings and specifications may be obtained from the office of the Supervising Chief Engineer, Room 713, Custom House Building, New York, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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LAW BUILDING
at
WEST VIRGINIA UNIVERSITY
Morgantown, W. Va.

NOTICE TO CONTRACTORS

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 4.00 P. M. Friday, March 31st, for doing all work and furnishing all materials necessary to complete the building described below, according to the plans and specifications of Charles W. Bates, Architect, Wheeling, W. Va.

The building is to be 144 feet x 56 feet, two stories and basement, fireproof construction, exterior of face brick, and stone; interior wood finish of oak, main corridors and stairway of marble, interior partitions of hard tile, roofing tile, flooring, maple, tile, marble and linoleum. Basement contains locker rooms, toilets, club rooms, machinery room, storage and packing room. First floor contains three class rooms, practice court, girls' club rooms. Second floor contains reading room, stack room, professors' offies, librarian's office.

Plans, specifications and blank form for bids will be mailed by the State Board of Control when request is accompanied with check for $10.00, five dollars of which will be refunded on return of plans accompanied with bona fide bid. Separate bids will be taken on wiring, plumbing and heating.

Bids to be accompanied by certified check payable to the State Board of Control for an amount equal to one per cent. (1%) of the bids, as guarantee of good faith.

STATE BOARD OF CONTROL
By James S. Lakin, President
Charleston, W. Va.

(Continued from page 136)

national conference on the housing problem would be likely to split upon prices of materials and wages and, in any event, have no power to affect either one. Such questions can be better settled by local conferences such as those already held. I have held generally that we are or should be a country of local community action, and that the province of the federal government was to stimulate and assist local action and to avoid every suggestion of nationalizing these questions. The blockade was due to high levels of materials, wages, railway rates, and shortage of home building capital. Prices and wages are slowly receding, efficiency of labor is increasing, and the volume of building is gaining.

There is one problem that has distinctly national character that would certainly fall within Senator King's vision and upon which national thought could be advanced by conference; that is, the mobilization of finance of home building. We have mobilized the commercial capital of the country through the Federal Reserve Banks. We have mobilized the far mortgage capital through the Farm Loan Bureau. We are considering mobilizing production capital for the farmers through another organization. The country badly needs a mobilization of the home building capital based upon our building and loan associations, insurance companies, and savings banks. We have a sound foundation upon which to build some sort of structure that would cheapen home building capital, give it more mobility to all regions and afford greater security. A conference to consider this problem would be of great value.

* * *

WE recently heard some one talking of the present "Vogue for Pessimism." And we must admit that Pessimism has certainly been having full swing. Now, blindly to ignore existing conditions can never cure those conditions, but to be pessimistic about them only makes matters worse. If the young seeds planted in the spring gave up at every clump of mud which impeded their progress, we should have no crops. Much good seed has been sown during the past year toward the solution of the very serious problems confronting not only the constructors, but all industries. There have been conferences, there have been investigating committees, there have been sugestions innumerable. These are the seeds which have been planted. The crop which is springing up from them will need much care and weeding, but with preseverance and courage, we can gather a fine harvest. With pessimism, never!

HOW TO ESTIMATE BRICKWORK

Practical Pointers on Figuring Quantities and Labor

By WILLIAM CARVER, *Architect.*

NO thoughtful person can fail to be impressed by the tendency among the building public to turn more and more from the perishable type of construction now generally used and to demand more enduring buildings, which save much in upkeep and in fire insurance premiums, are cooler in summer and assure the thriftiest use of fuel in winter, preserve their market value indefinitely and are a better investment. This movement is also in line with the urgent necessity for stringent conservation of our forest products, as made evident by the Senatorial investigation last year and by the present extensive agitation for reforestation.

Chief among the better material to which the public is turning is brick. This is only natural, for brick construction is the standard by which all other types of masonry may be measured. That such-and-such a material is "as good as brick" is a claim often read in advertisements. Its venerable history, its test by actual use under every conceivable condition and during periods up to thousands of years, its characteristic beauty which warms and mellows with the passing years, are reason enough for the general public, in which, after all, there is a strong appreciation of better things, inclining more and more toward this material. Moreover, brick now has its spokesmen who are drawing the attention of the people to the advantages of brick construction in the advertising pages of innumerable magazines and newspapers.

A contractor who is accustomed to turning out buildings on non-permanent construction and who tries to dissuade a customer from building a brick home by giving offhand an almost prohibitive figure for its construction, is making a great mistake. If he succeeds in his attempt to build a less enduring building, it will be borne in upon the purchaser more and more as time goes on that his reasons for wanting a better home were correct and the reputation of the builder will suffer. Satisfied customers, in any line, are the basis of success. The wideawake contratcor is now making himself familiar with methods and details of all types of permanent construction. He is learning that, after all, the estimating and building of masonry structures is no more difficult than is dealing with the construction with which long use has made him most familiar.

In giving a rough estimate of the comparative costs of a house in two or more types of construction, the contractor should remember that the great majority of the work in the house will cost exactly the same, no matter whether the house is of brick, frame or any other construction. The foundation walls, chimneys, floors, partitions, millwork, roof, wiring, plumbing, heating, tinwork and many other items will show the same cost, the only difference being in the exterior enclosing walls, and that only above the first floor line. Data gathered by the American Face Brick Association from various sections of the country over a number of years, indicates that the total cost of a brick house averages only about 7% over the ordinary type of construction, a difference of only $350 on a $5,000 house. It may be noted here, however, that the new brick Ideal wall, developed in recent months, reduces the cost of a brick house to such an extent that it can now compete in price with many forms of construction, but for the present we will figure the old type of brick building.

The carpenter contractor who would equip himself with information so that he can readily figure brick construction should be warned, however, that too many small mason contractors use estimating methods that are out of date and inexact.

Of course, on a small job, an error or inexactitude in taking off quantities may not be a serious matter, but on larger work or where figuring is close, the contractor should have a system so that exact costs and definite profits can be figured and thus eliminate uncertainty as far as it is possible to do so. To illustrate,—some mason contractors figure 7 to 7½ bricks per square foot of four inch wall thickness of solid brick wall. Anyone who will take the trouble of figuring out the square foot area of a standard brick (which is 2¼x3¾x8 inches) plus the usual ½ inch mortar joint, will see that it is impossible to get more than 6.16 brick per square foot of area, especially in view of the fact that there is practically no waste when using brick. Every bat and broken brick can be used in the wall. On a large job, the cumulative effect of this error would be serious and would result in the ordering of about 16% more brick than needed, not to mention the figuring in of items for handling and laying the extra brick and cost of extra mortar. There is a similar unfortunate practice often followed when figuring openings, some contractors deducting only a certain proportion of the area of the wall figured as solid, the theory being that the extra amount of brickwork figured in will pay for the cost of forming the opening. A better way than this is to deduct the full area of each opening, including the space occupied by the window box for a double hung frame, and make a definite allowance for forming the opening. Similarly,

some contractors do not deduct openings of less than a certain area—sometimes ten square feet, but it is easily seen that this practice would result in considerable inaccuracy on a job where a number of such openings occurred. The full thickness of the wall is also frequently figured for the full girth of the building.

The modern way of estimating brickwork is to figure the actual amount of brick, mortar, etc., needed and base the estimate upon a unit cost which will cover the forming of the openings and corners shown on the drawings. Very few buildings are constructed with plain walls without any openings, and the rate of laying brick is always averaged from jobs on which the usual number of openings occur. The best method is, therefore, to first look over the plans and specifications to determine the class of workmanship desired, the bond, joint and kind of mortar in which the brick is to be laid, whether or not the usual number of corners and openings are shown and fix the unit cost accordingly. Special items requiring extra labor can then be added as necessary.

Some contractors take off quantities of brickwork by reducing all the work where footings go to various brickwork to cubic feet and for larger depths, where walls vary in thickness and where the brickwork is in irregular masses, this is probbably the best method.

On smaller buildings, such as residences, where most of the brickwork occurs in walls of two thicknesses only (apart from chimneys and porch piers) it is generally more convenient to determine the area of the walls of each thickness and either to multiply. these area by the number of brick required per square foot or to read off the quantities from tables which are now available.

Another matter upon which practice varies is that of determining the number of face brick—where such are used—and their increased cost over the cost of the common brick backing. Some contractors determine the number of common brick and face brick separately, figuring the cost at different unit prices. Others figure the entire wall as a common brick wall, adding the increased cost of the face brick and the laying of the same as an extra item. The latter is probably the best method and makes for simplicity and accuracy in figuring. Where the face brick are bonded into the backing with headers, these should, of course, be allowed for in addition to the brick in the outer course.

In actually figuring a job a form is used which is ruled to denote the "in" items on one side and "outs" on the other. The square foot areas of the exterior wall 8 inches thick above the first floor line would, for instance, be placed under the "in" heading, while under the "out" heading would appear the areas of the window and door openings. The brickwork displaced by stone trim, by the weight boxes of double hung windows and other such items should be allowed for and material and labor deducted for the same. In the "in" column, however, is included any extra material and labor necessary for particular items. This system, carried out thoroughly on a few jobs, will enable cost to be determined very closely, especially if a record is kept of the actual cost of each item and checked over with the estimate.

In figuring fireplaces and chimneys, the quickest way is first to figure them as solid brickwork, afterward deducting the brickwork displaced by flues, fireplace openings and ash pit. Tables are available for figuring the material in chimneys, also in porch piers, the tables showing the material needed per foot run.

In figuring the labor, it should be remembered that bricklayers are now quite up to their pre-war production. In the data which follows the bricklayer production is figured on a very conservative basis, and from all sections come advice that these production figures can safely be increased.

In figuring an Ideal wall job, no furring or lathing need be included, plaster being applied directly to the brickwork.

Where brickwork is to be cleaned down, an allowance for this item should be made, also for mortar color, foreman where one is employed, and on large jobs the overhead or rental cost of hoisting machinery, engineer's time and fuel for same.

Material and labor for one square foot Ideal all-rolok wall 8 inches thick: 9.035 brick (of which 6.023 appear upon the face); .08 cu. ft. mortar, .061 hrs. laborer's time; .076 hrs. bricklayer's time.

For one square foot solid wall in common bond: 12.705 brick, .135 cu ft. mortar; .093 hrs. laborer's time; .084 hrs. bricklayer's time, if wall is laid in lime or cement-lime mortar. Where the mortar is cement mortar a little extra bricklayer's time should be figured for this mortar is a little less plastic. .092 hrs. bricklayer's time per sq. ft. is a fair allowance for cement mortar.

Where the Ideal wall is used the cost of construction of a brick home or other building is brought down so that it can compete on an equal first cost basis with any other construction.

By laying brick on edge instead of flat, a hollow wall is formed which has the important advantage of having no through mortar joint and which has a very slight current of air circulating in the interior. Moisture, even under severe practical conditions, cannot be conducted the length of a header brick by capillary attraction and the slight circulation of air helps to keep the header dry. It is therefore practical to plaster directly on the brick without the use of furring. The Ideal wall is the only type of masonry wall so far developed in which furring can be safely omitted. Practice has proved this wall, plastered directly on the brick, to be entirely satisfactory wherever used.—*Building Age.*

* * *

$58,000,000 IN HOUSING CONSTRUCTION

Fifty-eight million dollars has been loaned by the Metropolitan Life Insurance Company throughout the United States to build homes and apartments.

The Chicago Trust Company, handling the loans for the Metropolitan Company in Illinois, Wisconsin and Northern Indiana, announces that in that territory $3,400,000 of the fund has been spread sufficiently to build 1,040 homes and apartments, while new buildings are now going up at the rate of 30 a month. These houses have been erected in 66 cities.

The unusual part of the plan, according to the banking officials, is the small average of each loan, which is said to indicate that the construction is done for small home builders. The Illinois loans average about $4,000 each, which is approximately half of the value of building and lot in each case. The builders are given three to fifteen years in which to repay the loans.

The banking officials state that the Metropolitan company does about as much clerical work in making one of these small loans, as it would be putting out the entire $60,000,000 in a few big loans, and that the large loan policy is the one usually favored by American companies with vast sums to invest. This is another reason why this large insurance company deserves great credit for placing such large sums into home building loans.

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it To be out of sight in the commercial world is to be out of mind.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
1927 Market St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Mineraloid Flooring Co. ....524 Drexel Bldg., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co.....Bulletin Bldg., Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Cyclone Fence Co.....Stock Exchange Bldg., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIRE BRICK.
Fitzgerald, J. J., & Co...2nd and Butler Sts., Phila.

FIREPROOFING.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR PLATES.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.
Fitzgerald, J. J., & Co...2nd and Butler Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HARDWOOD FLOORS.
Geiger, A. F..S. E. Cor. Felton and Media Sts., Phila.
Herbert, W. A., & Son....5430 Haverford Ave., Phila.

HAULING CONTRACTORS.
Kane & Co. .....1226 N. 9th St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

INSULATION.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE.
Insurance Co. of North America,
3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....319 Vine St., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LATHER (Wood and Metal)
Whiteman, C. S. .....717 Walnut St., Phila.

LEVELS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
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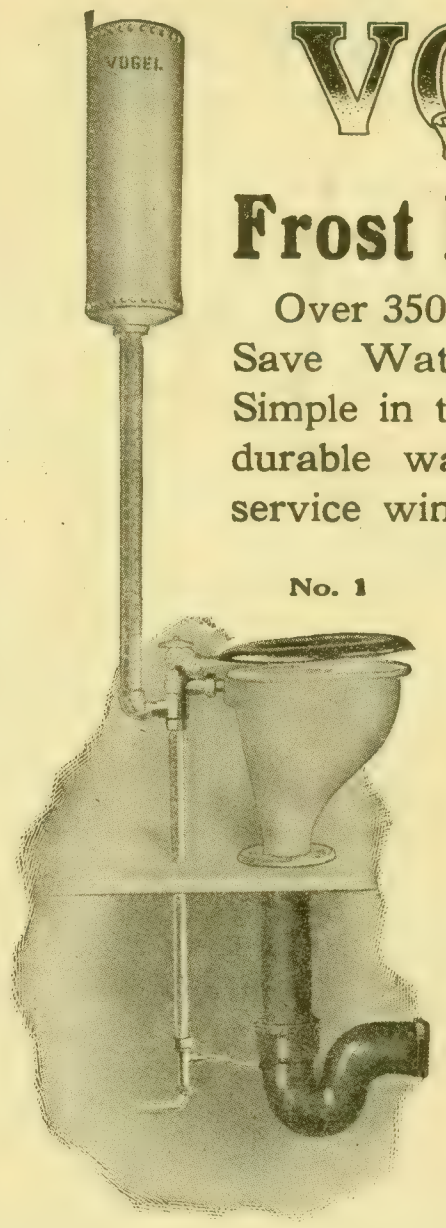
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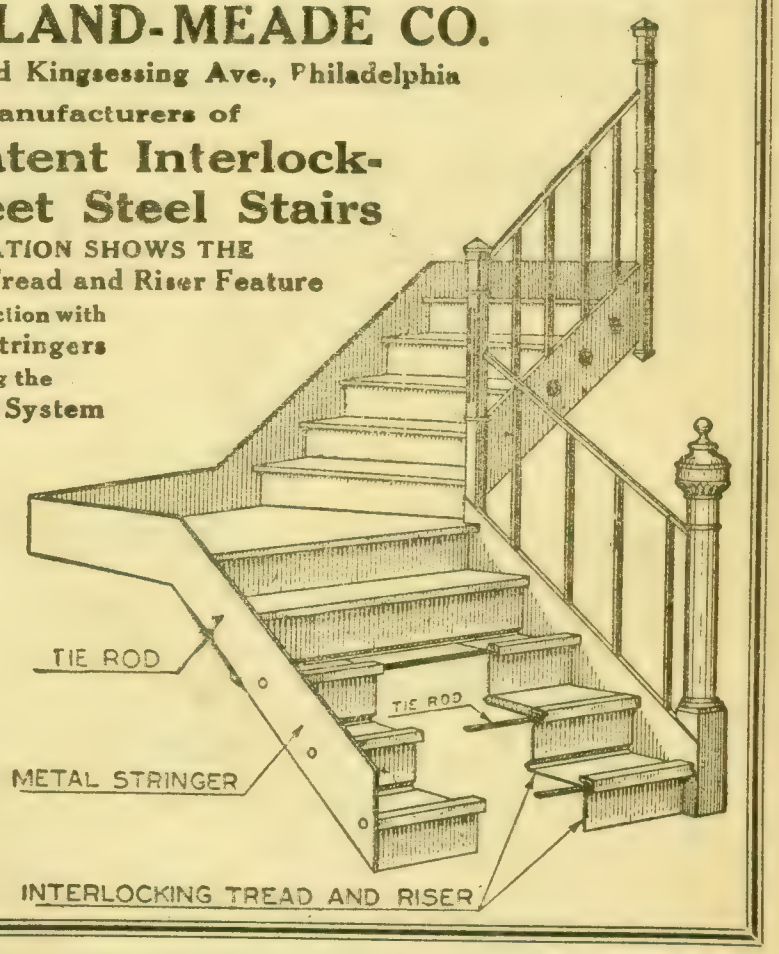
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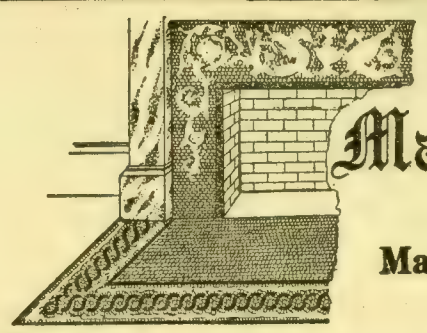
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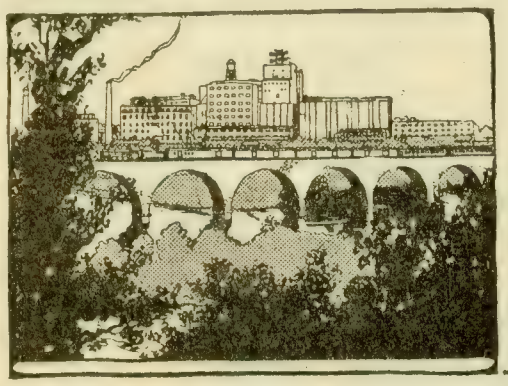
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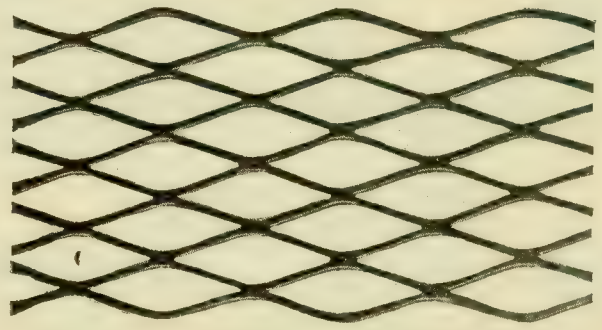
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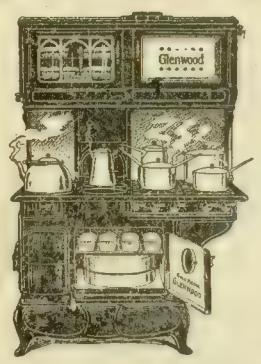
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 10

PHILADELPHIA
March 8, 1922

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As The Editor Sees It

A NATIONAL agreement heavily penalizing unions which refuse to abide by decisions has been reached by the Associated General Contractors of America, the American Institute of Architects, the Engineering Council, the National Building Trades and Employers' Association, and the building trades department of the American Federation of Labor through the national board of jurisdictional awards, which has just concluded its regular quarterly meeting in Washington.

A resolution adopted provides that local building trade councils of union labor shall suspend unions and refuse to recognize or support those unions which refuse to abide by decisions of the national board.

It also provides that general contractors and subcontractors who employ only union labor shall incorporate in their agreements with labor a provision that will secure compliance with all the decisions of the board, and that they shall refuse employment to members of local unions which do not abide by such decisions, and further that architects and engineers shall insert in all their specifications and contracts a clause that such decisions shall be followed.

"This resolution," says a statement issued by the national board, "is of far-reaching consequence to settle jurisdictional disputes, which in the past have constituted the majority of the causes for strikes and resulting delays and economic losses.

"It is the most effective co-operation between workmen, employers and professional men interested in construction looking toward the settlement of these jurisdictional disputes without resort to strikes.

"This action has been taken as the result of the report of a speical committee of the national board appointed to outline the procedure to be followed in clearing up the situation created by the refusal of the United Brotherhood of Carpenters and Joiners to conform to the decisions of the board in the case of settling the dispute between the carpenters and the sheet metal workers which was decided in favor of the latter."

The fact can be supported from many architects' offices that plans for work grown dusty are here and there being put into the way of execution, says *American Contractor.* Of course this does not make the architect sore. Neither does it make anyone connected with the construction industry warm under the collar. About the only fretting ones are those who see new construction at lower cost coming into competition with construction put up for their ultimate control under higher costs.

A close study of contracts awarded reveals the fact that much actual work is going to be put under way during the first half of this year. Statisticians tell us that the potential demand is so large by reason of the slack years that it will take years to build up to the saturation point. This is undoubtedly true.

Take the one matter of school building and it is found that the whole nation is sadly underbuilt. Construction to meet the needs of the American people for suitable dwelling will reach enormous proportions.

Looking farther ahead we see a great demand for railroad building piling up year by year in this country. Railroad contractors are having stored up for them an immense amount of work.

The Lumber Trade Journal in discussing the building situation comments on the President of the United States and the housing conference as follows:

The President of the United States has declined to call a national housing conference at this time, and gives reasons for his refusal. They are cogent.

The President says he doesn't know of any legislative palliative for the building problem presently confronting, and doubts very much whether we should try to create one. In other words, it might be said that it would be just another resort to paternalism to help out of a difficulty when we better would, can and must depend upon our own native resourcefulness, both individual and collective.

President Harding is sure that some

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good came from the conference on unemployment and he hopes that there will be results from the argriculture conference, but he doesn't believe that this sort of think should be kept up indefinitely on all sorts of subjects. He feels that building conditions are peculiar to each community, and that it is well for builders, bankers, contractors and building association officials to get together in such places. The lumbermen might have been included; for example, in Philadelphia, where they are endeavoring to co-operate with the others to the ends of increased building activities.

It is all perfectly understandable. It's no use trying to hoodwink others or ourselves. It's going to be a steady but slow growth. People who would invest in building are not going in up to their necks at once nor until there is reasonable assurance of fair and safe returns on the investment. They can't do any big building now under those terms nor without co-operation from the others. And that's what's what.

All the handicaps standing in the way, including high cost of labor, etc., are in process of being gradually remedied, if not removed. Prices and wages are slowly receding, efficiency of labor is increasing, and the volume of building gaining. In spite of bad weather some building is going on now, and when spring arrives we may look for a real revival, but that doesn't necessarily mean that the demand for housing is going to be supplied this year or next, and it is doubtful if rents or the prices of property will ever go back to the old levels. Some cities were known to be rather overbuilt. Shifts of population and war activities caused a change in the levels thereof, with a consequent enhancement of the inequalities and difficulties, which became under war conditions automatically more acutely evident and pressing; so it will not be for a long time, if ever, that the old conditions will return. It might mean that the cost of housing may never go back, either, to the old pre-war standards, with a corresponding effect on other related activities.

The President's ideas on the topic are not exactly new, and doubtless he would disclaim novelty for them. Their value lies in the distinguished authority of their source. Others as well as ourselves have many times before expounded the idea that the public is entirely too prone to appeal to the paternal element in government for help, when they could get results faster and better by "fearing God and taking their own part." We don't for one moment suppose, either, that Theodore Roosevelt thought he originated the idea, although he did put it a little bit better than anybody else in the title to one of his books. The thought should inhere in any sturdy tub that intends to stand squarely on its own proper bottom.

It would be a fine thing if it could be brought home to everybody, and particularly the little group of serious politicians in the state legislature who have talked so much and done so little.

ARE WE BURNING UP PENNSYLVANIA?

In Five Years $96,779,559 Worth of Property Destroyed by Fires Which Were Largely Preventable—
Public Education in Schools
And Elsewhere Only Effective Remedy

During the last five years ending with 1920, fire losses in Pennsylvania caused the destruction of property valued at the astonishing total of $96,779,559, according to figures made public recently by the National Board of Fire Underwriters, which compiled the statistics from its Actuarial Bureau's records. These figures reveal, in a startling way, the price being paid by the State for public ignorance and carelessness in handling fire hazards.

The causes are classified under three headings, of which twelve are designated as "strictly preventable" with a total of $24,103,254 or 24.9% of the whole; nine are designated as "partly preventable," the aggregate being $36,926,072 or 38.2% of the complete loss, and in addition there are those listed in the "unknown" column, which totals $35,750,233 or 36.9%. The "unknown" losses may be considered as largely preventable since, if determined, they would have been distributed among the other causes.

In analyzing the figures, it is found that while "Exposure," which means the effect of communicated fires, was responsible for the heaviest loss, $14,637,282, the principal specific cause of fire was "electricity," with a toll of $7,885,513. This indicates how the safest form of power and light is abused in Pennsylvania as a result of carelessness. Next in importance, as causes of fire, were "matches-smoking," $5,986,154, then "stove, furnaces, boilers and their pipes," $4,614,728, and then "spontaneous combusion," $3,845,139.

The losses during the five years were as follows:

Strictly Preventable Causes

Defective chimneys and flues	$3,633,352
Fireworks, firecrackers, etc.	276,597
Gas, Natural and Artificial	1,706,293
Hot ashes and coals, open fires	1,011,852
Ignition of hot grease, oil, tar, wax, asphalt, etc.	1,056,696
Matches-smoking	5,986,154
Open lights	1,483,465
Petroleum and it products	2,467,150
Rubbish and litter	221,421
Sparks on roofs	1,440,597
Steam and hot water pipes	204,949
Stoves, furnaces, boilers and their pipes	4,614,728
Total	$24,103,254

Partly Preventable Causes

Electricity	$7,885,513
Explosion	707,214
Exposure (including conflagration	14,637,282
Sparks from machinery	3,203,773
Incendiarism	1,048,974
Lightning	2,772,999
Miscellaneous known causes	1,994,288
Sparks from combustion	830,890
Spontaneous combustion	3,845,139
Total	$36,926,072
Unknown Causes (probably largely preventable	$35,750,233
Total	$96,779,559

Pennsylvania stands second among all of the states in the amount of loss by fire, and the figures quoted should be increased by about 25% to cover losses not reported to the National Board of Fire Underwriters.



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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence for Internes and Home for Attendants and Domestic Help, Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, C. Lincoln Furbush, M. D., Director, 584 City Hall, Philadelphia. Brick, 3 stories, 147x105 feet, and 2 stories, 93x38 feet, (2) wings 88x37 feet, slag roof, granolithic, linoleum and pine floors, hollow tile, metal lath, elevators, metal window guards, weather strips, waterproofing, terra cotta, iron work and stairs, Bond, hollow metal sash, rolled steel skylights, tile, marble and terrazzo work, demolition (heating, plumbing and electric work separate bids). Owners taking bids due March 20th. Hughes-Foulkrod Co., Commonwealth Building; Mitchell Brothers, 2125 Race street; F. L. Hoover & Son, 1023 Cherry street; J. B. Kelly, 2313 Walnut street, figuring.

Office Building, Seventeenth and Cherry streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Sun Oil Co., care of J. N. Pew, Jr., Finance Building, Philadelphia. Brick, cut stone, terra cotta, concrete and steel, 12 stories, 84x88x36 feet, asphalt built-up roof, maple and cement floors, metal lath, elevators, terra cotta, waterproofing, iron work and stairs, kalamein and metal doors, rolled steel skylights, hollow metal sash, steam heat, electric lighting. Owners taking approximate bid from George A. Fuller Co., 949 Broadway, New York City.

Parochial School, Sixty-seventh and Lansdowne avenue, Philadelphia. Architect, Paul Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Callista's Roman Catholic Church, care of Rev. D. J. Connihan, premises. Brick, stone and steel. Plans in progress. Architect selected.

Academy Buildings, City Line and Haverford avenue, Overbrook. Architect, Paul Monaghan, 1218 Chestnut street. Owners, Madames of the Sacred Heart, Nineteenth and Arch streets. Brick and stone, 3 stories, 280x200 feet, tile roof, steam heat, electric lighting. Plans in progress. Too early for details.

Building (alts.), 147 South Broad street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Granite, mill work, oak floors, painting, glazing, electric work, tile work, leaded glass, plastering, hardware. Architect taking bid from Pierce Henon Co., Juniper and Pine streets.

Building (alts.), 3634 North Broad street. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Dr. J. Henry Hinchcliffe, 3323 North Broad street. Brick, carpentry, mill work, canvas roof, metal lath, hardware, painting, glazing, hot water heat, electric work, plumbing, marble work, metal bulks. Architects taking bids due March 9th. T. C. Trafford, 1613 Sansom street; H. H. Wehmeyer, 509 West Cumberland street, and McNeill-Valentine Co., 841 North Broad street, figuring.

Business Building (alts.), 2109 Walnut street, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street. Owner, name withheld. General alterations, hot water heat, plumbing, electric work, tile work, hardwood floors, painting, papering, plastering. Plans in progress.

Residence, Sedgwick and Chew streets, Germantown, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, tile roof, hardwood floors, hot water heating. Preliminary plans in progress.

Residences (37), Pentridge street, West of Fifty-third street. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Charles E. Biddle, Fifty-second and Baltimore avenue, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hardwood floors, hot water heat, electric lighting, porches. Plans completed. Owner will take sub-bids.

Factory Building, American and Bristol streets, $4,360. Owners, M. Moister & Co., 3931 North Fifth street. Galvanized iron, 1 story, 50x180 feet. Owner will build.

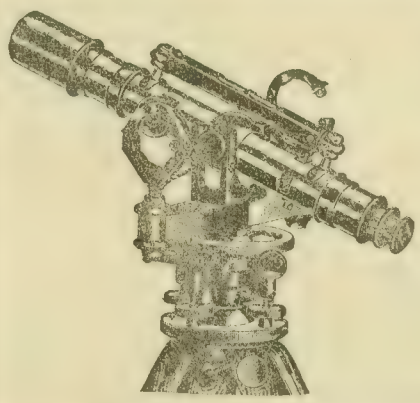
Residence and Garage, Wayne avenue near Lincoln Drive, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, A. D. Seiderman, care of architect. Stone, 2½ stories, 30x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residences (27), Sixty-sixth avenue and Opal street, Philadelphia, $132,300. Architect, Carl F. Otto, 5802 North Fifth street, Philadelphia. Owner, William H. Liebrich, 2840 Ridge avenue, Philadelphia. Brick, 3 stories, 18x32½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Bank Building (alts. and add.), Southeast Corner Germantown and Chelten avenues. Architect, Arthur H. Brockie, 254 South Fifteenth street. Owners, Germantown Trust Co., on premises. Cut stone, brick, steel, 2 stories, 82x47 feet, slate roof, maple, cement and cork floors, metal lath, elevators, steam heat. Architect taking bids due March 16th. Frank G. Stewart, 1619 Sansom street; H. H. Burrell, 206 South Quince street; H. E. Baton, 1713 Sansom street; F. L. Hoover & Son, 1023 Cherry street; Irwin & Leighton, 126 North Twelfth street; Ketcham & McQuade, 1029 Brown street; William J. Gruhler Co., 219 High street; A. R. Raff Cont. Co., 1635 Thompson street; F. Elvidge & Son, 5522 Germantown avenue; George S. Roth & Son, 230 East Gravers Lane; Wolverton Co., 222 East Willow Grove avenue, and J. Sims Wilson Co., 1125 Brown street, are figuring.

Ice Plant (add.), 310 South Delaware avenue, $7,000. Architect, private plans. Owners, Quaker City Cold Storage Co., 301 South Water street, Philadelphia. Brick, 1 story, 27½x126 feet, slag roof, cement floors. Owner will build.

Residences (28), Marshall and Bristol and Sixth and Bristol, and **Residences and Stores (2),** Marshall and Bristol, Sixth and Bristol,



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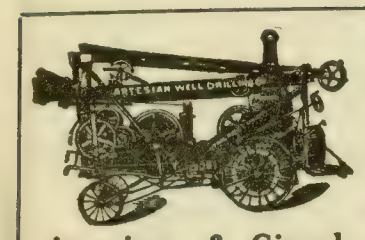
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$139,400. Architect, private plans. Owner, Francis B. Branagan, 934 West Lycoming avenue, Philadelphia. Brick, 2 stories, 14x27½ feet and 11x10 feet and 16x43 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Residences (2), Bryn Mawr and Wynnefield avenues, $15,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John H. McClatchey, Land Title Building, Philadelphia. Stone, 3 stories, 35x28 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residence, 5620 North Second street, Philadelphia, $3,500. Architect, private plans. Owner, Louis A. Schoppet, 3113 Edgemont street, Philadelphia. Brick, 2 stories, 16x49 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (18), Store and Residence (1), Medary avenue and Garnet street, Philadelphia, $78,000. Architect, private plans. Owners, William T. Clark & Son, 1622 North Broad street, Philadelphia. Brick, 2 stories, 15x42 feet, 12x11 feet, 15x31 feet, 12x11 feet, and 16x51½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owners will build.

Recreation Centre, Twenty-seventh and Clearfield streets, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, B. H. Warburton, Director, 595 City Hall. Shelter, fence, coping, etc., plumbing, drainage and electric work. Owners taking bids due March 13th at noon.

Residence, Sharpless road and Mountain avenue, Elkins Park, Philadelphia. Architect, W. Leslie Blithe, 608 Chestnut street, Philadelphia. Owner, E. Clarence Miller, 400 Chestnut street, Philadelphia. Stone, 2½ stories, 30x48 feet, wing 20x30 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress. Architect will take bids in two weeks.

Residences (18), first of large operation, Columbia avenue, between Fifty-ninth and Sixtieth streets. Architect, Thomas B. Lippincott, 10 South Eighteenth street. Owner, John N. McGarvey, Lincoln Building. Brick, 2 stories, 18x32 feet, slag and slate roof, hardwood floors, hot water heat, electric lighting, tile work, garages in basements. Ready for sub-bids.

Residences (14), Forty-ninth and Pine streets, Philadelphia, $78,000. Architect, private plans. Owner, Samuel Schlosberg, 5446 Locust street, Philadelphia. Brick, 2 stories, 16x33 feet, 12x22 feet and 16x56 feet, slag roof, oak and yellow pine floors, electric work. Owner will build.

Rooming House (alts.), 1433 North Sixteenth street, Philadelphia, $2,000. Architect, private plans. Owner, W. H. Good, 1514 Land Title Building, Philadelphia. Carpentry, mill work, plastering, painting, glazing. Owner will build.

Residence (alts.) to (3) Apartments, Nineteenth and Erie avenue, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owner, name withheld. Brick, 3 stories, general alterations. Plans in progress. Architect will be ready for bids in two weeks.

Residences (37), Lebanon avenue, West of Sixty-sixth street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x32 feet, slag roof, hot water heat, electric lighting, hardwood and pine floors. Plans in progress.

Residences (12), Frankford, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 15x40 feet, slag roof, hot water heating, electric lighting, pine and hardwood floors. Plans in progress.

Residences (6), Wingohocking and Bodine streets, Philadelphia, $15,500. Architect, private plans. Owner, John Brennan, Lawndale, Philadelphia. Brick, 2 stories, 15½x37 feet and 15x26 feet, 12x12 feet and 14x27 feet, 11x13 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (6), Grange avenue and Lawrence street, $25,800. Architect, private plans. Owner, George H. Herrmann, 430 Duncannon street, Philadelphia. Brick, 2 stories, 15x41½ feet and 14x29 feet, 11x12 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Transformer Building, State road, North of Bleigh street, $3,000. Architect, private plans. Owners, Braun & Stewart, Commercial Trust Building, Philadelphia. Brick, 1 story, 25x15 feet, slag roof, cement floors. Owner will build.

Residence, Overbrook, Philadelphia. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, M. Schwartz, care of architect. Stone and plaster, 2½ stories, 40x38 feet, Spanish tile roof, hardwood floors, steam heat, electric lighting. Architect will be ready for bids in one week.

Garages (13), rear of 3522-24-26 Germantown avenue. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, I. Cooper, on premises. Brick, 1 story, (8) 8x18 feet, (4) 8x22 feet, and (1) 24x30 feet, slag roof, cement floors, steam heat, electric lighting. Owner taking bids. Louis Swerdloff, 228 Suoth Fifty-ninth street, figuring.

Residences (2), East side Thirty-third, South of Susquehanna avenue, $31,500. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owners, J. Waldow and M. Levy, 707 Walnut street, Philadelphia. Brick, 2 stories, 20x112 feet, slate and slag roof, oak and yellow pine floors, hot water heat, electric light, tile work, metal lath, steel. M. Kirshner, 4930 Brown street, taking sub-bids.

Apartment House (alts. and add.), 220 North Broad street, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, William Garfield, care of architects. Brick, 4 stories, 18x93 feet, hot water heat, etc. Revised plans in progress.

Residence and Store, 5010 North Fifth street, Philadelphia, $3,500. Architect, private plans. Owner, M. Cylinder, 5734 Chestnut street, Philadelphia. Also **Residence**, 5008 North Fifth street, $6,000. **Garage**, $300. Brick, 2 stories, 16x8 feet, 10x12 feet and 16x64 feet, garage, 1 story, 12x16 feet, slag roof, oak, yellow pine and cement floors, hot water heat, electric light. Owner will build.

Store (alts.), 21 and 23 North Juniper street, Philadelphia, $5,000. Architect, private plans. Owners, John R. Thompson Co., 21 North Juniper street, Philadelphia. General interior alterations. Owner will build.

Residences and Garages (28), Thirteenth street, South of Chew street, $6,000 each. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owner, E. S. Rad-

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ley, 5701 North Park avenue, Philadelphia. Brick, 2 stories, 20x44 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (10), Cedar avenue, West of Felton street, $6,000 each. Architect, private plans. Owner, Harry Bobb, 3032 Agate street, Philadelphia. Brick, 2 stories, 15x30 feet and 12x18 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Hotel, location withheld, Philadelphia, $500,000. Architects, Lippincott & Young, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Reinforced concrete, brick and terra cotta, 7 stories, 130x130 feet, concrete roof and floors, gypsum block partitions, vacuum system, vent. system, kitchen equipment, ornamental iron work, kalamein doors, tile and imitation stone, elevators, vapor vacuum heat, electric lighting. Architects will be ready for bids March 15th.

Residences (2), Beakston, East of Dittman street, $8,000. Architect, private plans. Owner, Herbert L. Curtis, 1012 Marlborough street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, pine floors, hot air heat, electric lighting. Owner will build.

Residences (1), Larchwood avenue, between Forty-sixth and Forty-seventh streets, and (4) Pine street, between Forty-sixth and Forty-seventh streets. Architect, John L. Coneys, Drexel Building. Owners, Dr. McCleary, care of builder, and C. R. Siegel, on premises. Stone, brick, hollow tile and stucco, 3 stories, 29x62 feet, slate and tile roofs, hardwood floors, hot water and vapor heating, electric lighting, tile and marble work. Owners are taking sub-bids.

Warehouse (alts.), Twenty-first and Oregon avenue, Philadelphia. Owners, Constructing Quartermaster, Intermediate Department, Captain L. J. Dillon, Utilities Officer, on premises. Repairing wood floor in Division A, Warehouse M-1. Owners taking bids due March 11th. George H. Evans Co., Inc., 109 North Thirteenth street, are figuring.

Recreation Centre, Twenty-seventh and Clearfield streets. Architect, J. P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Brick, 1 story, asbestos shingle roof, cement floors, iron work, carpentry, mill work, hardware, grading, terracing, granolithic finish, terra cotta pipe, sidewalks (lighting and plumbing separate bids). Owners taking bids due March 13th. Fred. Borelli, 6413 Callowhill street; Mitchell Houseworth, Inc., 2512 North Twenty-seventh street; George H. Evans, Inc., 109 North Thirteenth street; James Shatz, 2503 Germantown avenue; Hurley Brothers, Bulletin Building; Mundy Paving Co., 228 South Alder street; Geo. Dobbin, 1020 S. Forty-seventh street; Joseph Kelly Cont. Co., Bulletin Building; Holmesburg Concrete Co., Holmesburg, Pa.; Monaghan & Losse, Inc., 3016 Chestnut street, and Robbins Cont. Co., 1137 North Front street, are figuring.

Hotel, Locust, Juniper and Watts streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Roy A. Heymann, Widener Building, Philadelphia. Brick, steel, terra cotta, concrete and steel, 15 stories, 500 rooms. Architect will take bids due March 17th. Irwin & Leighton, 126 North Twelfth street; George Kessler Cont. Co., Drexel Building; John R. Wiggins Co., Eighteenth and Cherry streets, and Wark Co., 231 South Broad street, will figure. Plans will be ready about March 8th.

Garage, Nineteenth and Berks streets, Philadelphia. Architect, R. C. Winter, 10 South Eighteenth street, Philadelphia. Owners, Walsh's Garage, Nineteenth near Berks street, Philadelphia. Brick and steel (slow burning construction), 2 stories, 36x187 feet, slag roof, cement floors, elevators, electric light, metal sash. Owner has received bids.

Drug Store, Passyunk avenue and Mifflin street. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, H. Marretta, 401 North Simpson street, Philadelphia. General alterations. Plans in progress.

Residence, Chestnut Hill, Philadelphia. Architect, John Graham, Jr., 10 South Eighteenth street, Philadelphia. Owner's name withheld. Stone, 2½ stories, 36x25 feet, slate roof, oak and pine floors, hot water heat, electric lighting. Architect taking bids, due as soon as possible. E. Allen Reeves, Inc., Abington, Pa., and James Riley & Son, Forrest avenue, Mt. Airy, are figuring.

Church (alts.), Franklin and Thompson sts., Philadelphia. Architects, Rehfuss & North, 10 South Eighteenth street, Philadelphia. Owners, Temple Presbyterian Church, on premises. Plastering, carpentry, millwork, electric work, metal lath, painting. Architect taking bids, due March 11th. T. C. Trafford, 1613 Sansom street; J. M. Yardley, 1716 Sansom street, and Turnbull & Cornell, 20 South Eighteenth street, are figuring.

Schools (alts.), various locations, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Plastering, carpentry, millwork, metal ceilings. Owners taking bids, due March 9th. F. A. Havens Co., 946 North Nineteenth street; Mitchell Bros., 2125 Race street; E. C. Durell, 1716 North Twenty-fourth street, and George Dobbins, 4615 Springfield avenue, are figuring.

Undertaking Parlor, Fifty-second and Funston streets, Philadelphia. Architect, Bruce C. Wenner, 3805 Baring street. Owner, D. G. Frankenfield & Sons, 322 North Fifty-second street. Architect taking bids, due March 17th. Ketcham & McQuade, 1029 Brown street, are figuring.

Building (alts.), 3634 North Broad street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Dr. J. Henry Hinchcliffe, 3323 North Broad street. Architect taking bids, due March 8th. Thos. C. Trafford, 1613 Sansom street; Wm. G. Uhler's Sons, 1909 McKean street; McNeill Valentine Co., 841 North Broad street; H. H. Wehmeyer, 509 West Cumberland street; Jacob Y. Loux, Fifteenth and Hunting Park avenue, and F. A. Havens Co., 845 North Nineteenth street, are figuring.

Twin Residences (2), Hortter street, Germantown, Philadelphia. Architect, Richard R. Neely, 2136 Pine street, Philadelphia. Owner, Raymond Rilling, 1425 West Venango street. Brick, 2½ stories, 20x45 feet, slag and tile roof, hardwood floors, hot water heat, electric light, tile work, cement work. Owner and architect will take sub-bids in one week.

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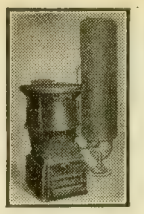
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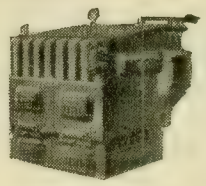
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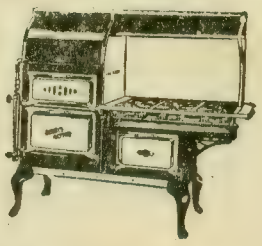
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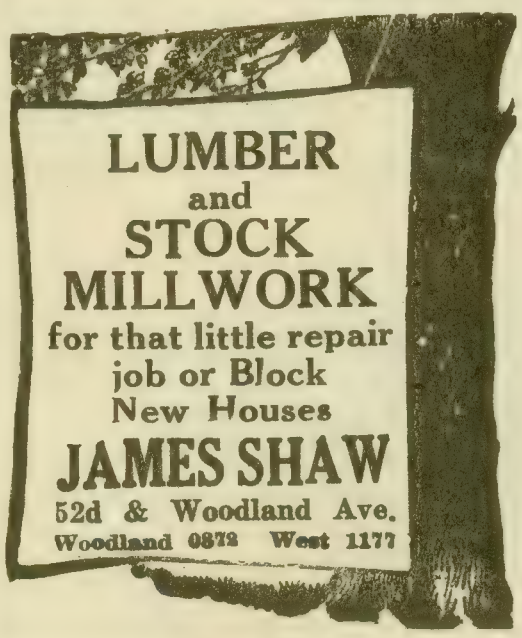
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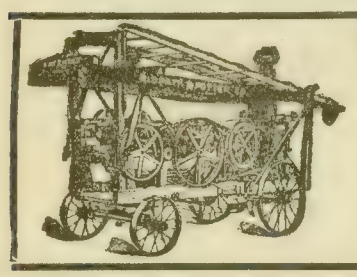
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Owners, Board of Education, J. D. Cassell, Superintendent of Buildings, Nineteenth above Chestnut street, Philadelphia. Plans in progress. Will take bids in about two months.

Store, Club and Social Rooms, 306-08 Germantown avenue. Architect, Wm. H. Wooters, 816 West Allegheny avenue. Owners, Tioga Business Men's Association, care of architect. Brick and steel, 2 stories, 40x110x125 feet, slag roof, maple, neolithic and cement floors, electric light, plumbing, metal lath, metal ceilings, plate glass, flush bulks, stairs, bond (heating reserved). Architect will be ready for bids in a few days.

Store and Two Family Dwelling (alts. and add.), 3632 North Broad street. Architect, Wm. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Theo. Marquetand, care of architect. Brick and terra cotta, 1 story, 15x20 feet, slag roof, maple floors, heating and lighting extensions, general alterations. Architect will take bids in a few days.

Residence (alts.), 1632 Spruce street, Philadelphia. Architect, F. V. Nickels, 225 South Sydenham street. Owner's name withheld. Brick, carpentry, millwork, plastering, mineral floors, painting, glazing, electric lighting, plumbing. Architect taking bids, due March 9th. Pierce Henon Co., Juniper and Pine streets, are figuring.

Residence, 6307 Torresdale avenue, Philadelphia, $4,500. Architect, private plans. Owner, Joseph B. Gudknecht, 6305 Torresdale avenue, Philadelphia. Brick, 2 stories, 16 feet 4 inchesx40 feet, slag roof, hot water heat, electric light, oak and yellow pine floors. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Library, Nineteenth to Twentieth, Parkway, Philadelphia, $1,367,500. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Works, and Trustees of Free Library, Thirteenth and Locust streets, Philadelphia. Brick, cut stone and steel, 2 stories, 302x209 feet, slag and promenade tile roof, cement floors, roof ventilators, waterproofing, Bond, metal doors, bronze metal sash, rolled steel skylights. Contract awarded to P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia.

Mill Building, Southwest Corner Delaware avenue and Dickinson street, $175,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, John H. Morice, on premises. Brick and steel, 2 stories, 156x80 feet, slag roof, cement and granite block floors, hollow tile, metal lath, waterproofing, iron work, floor hardener, Bond, rolled steel sash and doors, hollow metal skylights, demolition (heating, electric lighting, elevators, sprinklers and plumbing included in price). Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

Residence and Garage, St. Martins, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, Mrs. Henry Bains, Jr., Haverford, Pa. Brick, 2½ stories, 102x50 feet, and 1½ stories, 44x25 feet, slate roof, oak and pine floors, tile work (heating, lighting and plumbing reserved), iron work. Contract awarded to Stokes Brothers, 6723 Musgrave street, Philadelphia.

Store Building, 104 Little Dock street, Philadelphia, $5,000. Owner, J. L. Leonard, on premises. Brick, 2 stories, 20x58 feet, slag roof, pine floors, electric light. F. T. Myers Co., 1916 Brandywine street, awarded contract.

Residence and Store (2), 2955 North Thirty-second street, $17,000. Architect, private plans. Owner, I. Zion, 3915 North Fifth street, Philadelphia. Brick, 2 stories, 20x50 feet, 17x30 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Marshall & Friedman, 2323 South Marshall street.

Garage, Northwest Corner Thompson and Hutchinson streets, Philadelphia, $20,000. Architect, I. W. Levin, 1001 Chestnut street, Philadelphia. Owner, Harry Klein, 1022 West Girard avenue, Philadelphia. Brick, 2 stories, 50x66 feet, slag roof, cement floors, steam heat. Contract awarded to N. Epstein, 2221 North Front street, Philadelphia.

Residence and Store (add. and alts.), 802 South street, $4,800. Architect, private plans. Owner, A. Koolick, on premises. Brick, second story add., 12x10 feet and 19x10 feet, slag roof, yellow pine floors, electric light. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Store (add. and alts.), Northeast Corner Allegheny avenue and Lee street, $3,700. Architect, private plans. Owner, Mrs. Albert Hamilton, 138 East Allegheny avenue. Brick, 1 story, 15x7 feet 8 inches, slag roof, oak and yellow pine floors. Contract awarded to Charles H. Shuster, 1950 North Watts street, Philadelphia.

Shop, 5843 Morton street, Philadelphia, $3,600. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, Rocco Mari, on premises. Stone, 1 story, 17x18 feet and 26x22 feet, composition and slag roof, concrete and pine floors, electric light, hollow metal skylights. Contract awarded to Maurice C. Manchey, 5630 Boyer street, Philadelphia.

Signal Towers (5) and Remote Control Houses (5), Frankford Elevated. Owners, Department of City Transit, 1211 Chestnut street. Steel construction, wood roof and sides, (5) 13x10 feet, and (5) 7x7 feet, granolithic floors, painting, glazing, hardware, Bond, steel stairs. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street.

Garage, 7151 Germantown avenue, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Mrs. Robert L. Barr, on premises. Brick, 1 story, 101x16 feet, slag roof, cement floors, electric light (heat reserved). Contract awarded to J. M. Yardley, 1716 Sansom street, Philadelphia.

Building, Nineteenth and Chestnut streets, Philadelphia. Architect, Leroy B. Rothschild, 1220 Sansom street, Philadelphia. Owners, Robert Glendinning & Co., 400 Chestnut street. Brick, 2 stories, 99x21 feet, slag roof, maple floors, hollow tile, metal lath and ceil-

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ings, dampproofing, iron and steel work, electric lighting, steam heating, demolition. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Church, Marvine and Rockland streets, Philadelphia, $40,000. Architects, Lachman & Murphy, Drexel Building. Owners, Holy Trinity Presbyterian Church, on premises. Stone and steel, 57x30 feet and 40x20 feet, slate roof, maple floors, metal lath, iron work, steam heat, electric lighting. Contract awarded to D. A. McClelland Const. Co., Drexel Building.

Home (alts.), Northwest Corner Seventieth and Woodland avenue, $6,200. Architect, Paul Monaghan, 1218 Chestnut street, Philadelphia. Owner, St. Vincent's Home, on premises. Plumbing, plastering, carpentry, mill work, plastering, tile and terrazzo work. Contract awarded to George S. Roe, 6949 Saybrook avenue, Philadelphia.

Residence, East side Vandike street, Philadelphia, $4,500. Architect, private plans. Owner, Tony Geimpetro, 7206 Hegerman street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, oak and yellow pine floors. Contract awarded to M. Fonaro, 7256 Hegerman street, Philadelphia.

Store and Two-Family Residence, 608 Fitzwater street, $4,000. Architect, M. Capobianco, 778 S. Seventh street, Philadelphia. Owner, Joseph Di Giacoma, 1433 South Broad street, Philadelphia. Carpentry, mill work, painting, glazing, plastering. Contract awarded to Generoso Di Giacoma, 1433 South Broad street.

Building (alts.), Southeast Corner Thirteenth and Erie avenue, $3,000. Architect, private plans. Owner, William Meyers, on premises. General interior alterations. Contract awarded to Charles T. Clark, 3635 Germantown avenue.

Residence and Store (alts.), Southwest Corner Sixteenth and Columbia avenue. Architect, private plans. Owner, H. E. Dimmick, 1611 Columbia avenue, Philadelphia. Bulk windows, plate glass. Contract awarded to Hugh Hazlett & Son, 1701 North Twentieth street.

Rooming House, 5224 Parkside avenue, Philadelphia, $15,000. Architect, private plans. Owner, Dr. G. H. Hoffman, 507 North Seventh street, Philadelphia. Brick, 3 stories, 20x12 feet and 16x28 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to H. Miron, 504 North Seventh street, Philadelphia.

Office (alts. and add.), Northeast Corner Eleventh and Sansom streets, $9,000. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owners, Robin Brothers, 1500 Sansom street, Philadelphia. Brick, third story add., 36x49 feet, slag roof, steam heat. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Residences, Magee street, East of Hasbrook avenue, $7,800. Architect, private plans. Owners, J. and E. Corbett, 6237 Rising Sun Avenue, Philadelphia. Brick, 2 stories, 14x46 feet, hot air heat, electric light. Contract awarded to W. G. Isler, 806 Levick street, Philadelphia.

Store, 227 Callowhill street, Philadelphia, $7,000. Architect, private plans. Owners, Oehril Brothers, 465 North Third street, Philadelphia. Brick, 1 story, 20x78 feet, slag roof, yellow pine floors, electric light. Contract awarded to Henry P. Schneider, 3713 Old York road.

Almshouse and Stable, Shawmont avenue, Roxboro, Philadelphia. Architect, Herman Miller, 1420 Chestnut street, Philadelphia. Owners, Overseers of the Poor, on premises. Stone, 2 stories, 28x89 feet, slate or tile roof, pine floors, steam heat, electric lighting, tile work, iron work. Contract awarded to Griffith Yarnall, Roxboro, Philadelphia.

Club House (alts. and add.), 25 South Van Pelt street, Philadelphia. Architect, David B. Bassett, 1520 Locust street. Owners, Big Brothers Association, on premises. Brick, cut stone and steel, 1 story, 60x26 feet, Warren Ehret roof, concrete floors, waterproofing, iron work, copper skylights, tile and marble work, electric light, vapor heat. Contract awarded to Frank G. Stewart, 1619 Sansom street.

Store and Dwelling, 1134 East Palmer street, Philadelphia, $5,000. Architect, private plans. Owner, Mrs. C. McWilliams, on premises. Brick, 2 stories, 16x30 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to Wittenberg & Chipin, 3 North Nineteenth street, Philadelphia.

Residence and Store (add.), 4947 Germantown avenue, $2,600. Architect, private plans. Owner, Mrs. H. L. Harvey, on premises. Brick, 1 story addition, 3x18 feet, slag roof, yellow pine floors. Contract awarded to Mark H. Davis, 5422 North Fifth street, Philadelphia.

Residences (12), Fifty-fifth and Thomas avenue, Philadelphia, $87,200. Architect, Ralph Moss, Sixty-fifth and Haddington avenue, Philadelphia. Owner, W. A. Doran, 422 South Fifty-second street, Philadelphia. Brick, 2 stories, 16x23 feet, 13x35 feet, 19½x37 feet, 18½x37 feet, and 19 feet 3 inchesx45 feet, slag roof, oak and yellow pine floors, electric light, hot water heat, tile work. Contract awarded to J. D. Fisher, 5424 Thompson street, Philadelphia.

Residence (alts. and add.), 6222 Race street, Philadelphia, $4,400. Architect, private plans. Owner, Lorenzo Renaldo, on premises. Brick, 2 stories and 1 story, 12x14½ feet, 3 feet 9 inchesx34 feet, slag roof, oak and yellow pine floors, electric lighting. Contract awarded to John Mansolino, 6223 Girard avenue, Philadelphia.

Garages (10), northwest corner of Willard and Joyce streets, Philadelphia. Architect, private plans. Owner, George M. Clayton, 2028 Wishart street, Philadelphia. Brick, 1 story, 85x18 feet, slag roof, cement floors, electric light. Contract awarded to Wm. Carr, 3550 Jasper street, Philadelphia.

Storage Building (alts.), Thirty-sixth and Gray's Ferry Road, $17,000. Architect, private plans. Owners, the Barrett Company, on premises. Carpentry and steel work. Contract awarded to Roy A. Robinson, Parker and Umbria streets, Philadelphia.

Weaving and Binding Building (alts. and add.), 3805 Frankford avenue, $9,000. Architect, private plans. Owners, James Hulton & Son, 3819 Frankford avenue, Philadelphia. Brick, 2 stories, 26x66 feet, slag roof, yellow pine floors, electric light. Contract awarded to F. Crompton & Bro., 4614 Oakford street.

Residences (2), north side of Wakeling, west of Horrocks street, $7,500 each. Architect, private plans. Owner, Andrew S. Haines, 1624 Margaret street, Philadelphia. Brick, 3 stories, 16 feet 4 inchesx30x24 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to George R. Osborne & Son, 5015 Saul street, Philadelphia.

Storage Building, north side of Westmoreland street, east of Richmond street, $6,000. Architect, private plans. Owners, General Smelting Co., Stock Exchange Building, Philadelphia. Iron and brick, 1 story, 40x60 feet, asbestos metal roof, concrete floors, electric lighting. Contract awarded to Henry E. Baton, 1713 Sansom street, Philadelphia.

Residence, south side of Rhawn street, east of Ferndale street, $5,000. Architect, private plans. Owner, Harry Hoffman, Rhawn and Veree Road, Philadelphia. Brick and frame, 2 stories, 26x27 feet 10 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Louis Ahlers, Jr., 4433 Salmon street, Philadelphia.

PENNSYLVANIA
Construction News

Y. M. C. A. Building, Williamsport, Pa. Architects, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Y. M. C. A., Harry D. Brown, chairman, Building Committee, Williamsport, Pa. Brick, cut stone, steel and granite, 4 stories, 97x106 feet, Barrett roof, cement and composition floors, hollow tile, metal lath, safety treads, waterproofing, iron work, demolition, vacuum heat, electric light, tile and marble work, rolled steel sash, copper skylights, hollow metal doors, Bond, iron work. Lowest bids submitted by Turner Const. Co., 1713 Sansom street, Philadelphia, $343,400; second lowest, Wark Co., 231 South Broad street, Philadelphia.

Residence, Penfield, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Josef Cisar, 5853 Rodman street, Philadelphia. Frame and stucco, 2½ stories, 28x45 feet, shingle roof, hardwood and pine floors, hot air or water heat, electric lighting,

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tile work. Architect taking bids due March 10th. McNeill-Valentine Co., 841 North Broad street; F. B. Davis & Son, Inc., 240 North Sixteenth street; Staines Brothers, Bywood, Pa.; J. Howard Roberts, Lansdowne, Pa.; Robert Ward, Penfield, Pa., and William Darragh, Highland Park, Pa., are figuring.

Farmer's House, Radnor, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, H. A. Berwynd, Radnor, Pa. Stone, 2½ stories, 32x28 feet, slate roof, oak, pine and composition floors, hollow tile, metal weather strips, hot water heat, electric light, tile work. Architect taking bids due March 14th. M. N. Croll, Radnor, Pa.; John Weigel, Narberth, Pa.; Adolph Korn, Clifton Heights, Pa.; J. Howard Roberts, Lansdowne, Pa., and Turnbull & Cornell, 20 South Eighteenth street, Philadelphia, are figuring.

High School, Gymnasium and Auditorium, Darby and Coopertown roads, Haverford, Pa. Architects, Boyd, Abel & Gugert, Estey Building, Philadelphia. Owners, School District of Haverford Township, Joseph W. Huff, Oakmont, Pa. Brick and cut stone, 2 stories and 1 story, 177x72 feet, (2) wings, 83x58 feet, slag roof, cement and maple floors, metal lath and window guards, Bond, tile work, iron work. Owners taking bids due March 13th. F. V. Warren, 132 South Seventeenth street; Monaghan & Losse, Inc., 3016 Chestnut street, figuring.

Residence, Abington, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, E. Raymond Ambler, Abington, Pa. Architect taking bids. E. D. Lever, Abington, Pa.; W. John Stevens, Inc., Wyncote, Pa.; E. Allen Reeves, Inc., Abington, Pa., and Specht & Sperry, Heed Building, are figuring.

Residence, Roslyn Park, Roslyn, Pa. Architect, private plans. Owner, L. Burns, 3328 North Front street, Philadelphia. Frame, 2 stories, 26x28 feet, shingle roof, concrete foundations, North Carolina pine floors, hot air heat, electric light. Owner taking bids. Roy Randall, Horsham, Pa., is figuring.

Residence, Noble, Pa. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Willard J. Rafetto, Noble, Pa. Architect taking bids due March 20th. J. Sims Wilson Co., 1125 Brown street; William J. Gruhler Co., 219 High street; E. Allen Reeves, Inc., Abington, Pa.; W. John Stevens, Inc., Wyncote, Pa., and Specht & Sperry, Heed Building, Philadelphia, are figuring.

Residence, Brookway avenue, Merion, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, J. Clayton Strawbridge, Merion, Pa. Architect taking bids due March 10th. Milton W. Young, Overbrook, Philadelphia; E. J. Hedden, Finance Building; Specht & Sperry, Heed Building; Ketcham & McQuade, 1029 Brown street, and Alfred James, 5000 Sansom street, are figuring.

Store (alts.), Hamilton street, Allentown, Pa. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Samuel Roth, 645 North Second street, Allentown, Pa. General interior alterations, flush bulks, etc. Plans in progress.

Residence, Hatboro, Pa. Architect, private plans. Owner, Penrose Craven, Hatboro, Pa. Frame, 2 stories, 24x24 feet, shingle roof, North Carolina pine floors, hot air heat, electric light. Owners taking bids due March 6th. Roy Randall, Horsham, Pa., is figuring.

Residence, Horsham, Pa. Architect, private plans. Owner, name withheld. Frame and stucco, 1½ stories, 24x28 feet, slate surfaced asphalt shingle roof, concrete foundations, North Carolina pine floors, pipeless heating, electric light. Roy Randall, Horsham, Pa., taking sub-bids.

Bakery (add.), Coplay, Pa. Architect, C. N. Grossart, 603 Hamilton street, Allentown, Pa. Owner, William J. Burke ,Coplay, Pa. Brick, 1 story, 24x48 feet, concrete and maple floors, hot water heat, electric light. Owner ready for sub-bids.

Residence, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Cleveland Kemmerer, Bethlehem, Pa. Frame, 2½ stories, 25x40 feet, shingle roof, pine floors, hot water heat, electric light. Owner ready for sub-bids.

Double Houses (2), Allentown, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Jacob Schnitzel, 209 South Seventeenth street, Allentown, Pa. Brick, 2½ stories, 34x56 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for sub-bids.

Residence, Delaware avenue, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, A. H. Boyer, Bethlehem, Pa. Brick, 2½ stories, 35x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due March 15th. Elmer Reinhard, Coopersburg, Pa.; Luken & Harned and Garber & Cissel, Bethlehem, Pa., are figuring.

School, Salisbury, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, School Board, W. Weitknecht, Bethlehem, Pa. Brick, cast stone, 2 stories, 89x51 feet, built-up roof, steam heat, electric light. Architect taking bids due March 15th. Gangwere & Co., A. N. B. Building; Ochs Const. Co., 440 Wire street; Butz & Clader, Ainey Building; Yeaker & Koehler; George H. Hardner, Lentz Building, Allentown, Pa.; Garber & Cissel, 12 West Fourth street; F. F. Speck, 51 West Walnut street; R. S. Rathbun, 409 Vine street; Frank Groman & Sons, 79 West Broad street, Bethlehem, Pa., are figuring.

Dairy Barn and Equipment, Muncy, Lycoming County, Pa. Architect, private plans. Owners, State Industrial House for Women, Muncy, Pa., P. M. Newman, chairman, Building Committee, 330 Government Place, Williamsport, Pa. Reinforced concrete and steel. Owners taking bids due March 22nd at noon. Plans may be secured from Chairman P. M. Newman. Bids received by Chairman Newman or Frank Smith, secretary, Board of Managers, 601 West End Trust Building, Philadelphia.

Alumni Memorial Administration Building, Bethlehem, Pa. Architects, Theodore Fisher and James Burley, 363 Lexington avenue, New York City. Owners, Lehigh University, Bethlehem, Pa. Stone, limestone, brick and steel, 2½ stories, 184x92 feet, asbestos, asphalt and slate roof, cement and maple floors, hollow tile, metal lath, waterproofing, iron work, tile, marble and terrazzo work, hollow metal sash, electric work, iron work. Architects taking bids due March 15th. Irwin & Leighton, 126 North Twelfth street, and John R. Wiggins Co., Eighteenth and Cherry streets, Philadelphia, are figuring.

Residence, Bethlehem, Pa. Architect, C. M. Lovelace, Bethlehem Trust Building, Bethlehem, Pa. Owner, Dr. R. N. Wall, 62 East Broad st., Bethlehem, Pa. Stone, 2 stories, 58x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Apartment and Store, North Sixteenth street, Allentown, Pa. Architect, C. N. Grossart, 603 Hamilton street, Allentown, Pa. Owner, Dr. H. Jordon, Allentown, Pa. Brick, 3 stories, 20x110 feet, slag roof, pine floors, electric light, tile and terrazzo work, plate glass, hollow metal skylights, roof ventilators. Plans in progress.

Residence (alts.), South Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Lehigh University, care of architect. (New heating reserved), hardwood floors, electric light, tile work, partitions, plumbing. Plans in progress.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa. Lowest bids submitted on following roads:

Blair County, Route 57, and Centre County, Snyder, Taylor and Rush Townships. Clark Const. Co., Hastings, Pa. $371,367.35.

Bradford County, R-299, Appli. 1248, Canton and Leroy Townships. A. W. Hinaman, Akron Ohio. $260,923.59.

Butler and Venango Counties, Routes 218 and 233, Mercer and Irwin Townships and Harrisville Borough. Buckeye Const Co., Youngstown, Ohio. $457,361.25.

Clarion Co., R-65, Ashland and Elk Townships. Kavanaugh and Deniro Const. Co., Youngstown, O. $211,049. 85.

Clearfield County, Appli. 1787, Section 1, Curwensville Borough. Lynn A. Brua, Jr., Hollidaysburg, Pa. $65,320.85.

Clearfield County, A-1787, Section 2, Pike Township. Burnside Const. Co., Burnside, Pa. $81,392.21.

Clearfield County, A-1787, Section 3, Knox Township. Burd Const. Co., Cresson, Pa. $146,954.40.

Clearfield County, A-1545, R-234, Houtzdale Borough and Woodward Township. Smethport Const. Co., Union City, Pa. $197,-196.80.

Cumberland County, R-34, Lemoyne and Camp Hill Borough. Souder Const. Co., Lancaster, Pa. 171,215.13.

Perry County, R-195, Buffalo Township and Liverpool Borough. Ambler-Davis Co., Harrison Building, Philadelphia. 355,496.70.

Montgomery County, R-178, Lower Twynead, Whitpaid and East Norriton Townships. Everton A. Corson, Ocean City, N. J. $203,-639.85.

Snyder County, R-194-195, Penn, Union and Chapman Townships. Comerford Const. Co., Real Estate Trust Building, Philadelphia. $512,909.15.

Somerset County, R-51, Summit and Elk Township and Salisbury Borough. M. F. McCabe, Fairmont, W. Va. $251,014.08.

Washington County, R-268, Speers and Dunlevy Boroughs and Allen Township. R. Galiardi & Sons, Connellsville, Pa. $133,247.70.

Delaware County, R-225, Radnor Township. Dunlevy Brothers Co., Coatesville, Pa. $134,000.

Allegheny and Westmoreland Counties, R-120, North Versailles and North Huntingdon Townships. Dunn & Ryan Cont. Co., Pittsburgh. $92,477.79.

Bradford County, R-1303, Athens Township. Horn & Devling, Algeton, Pa. $80,442.65.

Bradford County, Appli. 1246, Smithfield and Ulster Townships. Horn & Devling, Galeton, Pa. $291,768.40.

Clarion County, A-1328, R-237, Red Bank Township. John Battenfield Sons Co., Millvale, Pa. $95,107.04.

Clearfield County, A-1435, R-234, Osceola Mills Borough. Gifford & Pritchard, Phillipsburg, Pa. $27,304.50.

Clearfield County, A-1776, Sandy Township. Matthews Brothers Const. Co., Inc., Pittsburgh, Pa. $164,663.85.

Clearfield County, A-2774, Sandy Township. W. C. Guncheon & Co., Smethport, Pa. $52,112.50.

Cumberland County, A-1707, West Pennsboro Township. The Development & Const. Co., Baltimore, Md. $204,322.62.

Jefferson County, R-248, A-1584, 1589, 1581, Rose and Eldred Townships and Brookville Borough. Matthews Brothers Const. Co., Pittsburgh, Pa. $138,378.55.

Jefferson County, R-61, R-1590, Snyder Township. Austin Rankin Coeper, Idamar, Pa. $89,496.20.

A Quantity of Useful Building Equipment and Hardware will be Sold at War Department Auction

Atlanta, Georgia, March 23rd

The commodities offered at the March 23rd Auction by the War Department at Atlanta are largely confined to garage supplies, metal, machinery, hardware, rope and cordage, paints and oils, etc.

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Be Sure to Have Your Representative at this Sale

A convenient way to find profit in this War Department Sale is to send one man to represent several firms. Get some of your friends, who will be interested with you in the offerings, to share with you the expense of having a common representative at ATLANTA, MARCH 23rd.

Send for the catalog of the sale. Instruct your man as to the purchases you would like to make. BE REPRESENTED AT ATLANTA.

You May Want Some of these Commodities:

TAMPERS

Tampers, iron 15
" concrete, assorted 84

TAPE

Tape, metallic, 100 feet.....570
" " 15 meters 40
" measuring 5/8" 50 meters.. 26
" steel, 5 feet 2858
" line steel, 50 feet 24

CARPENTER TOOLS

Bags, for small stores, canvas....11
Bits, screwdriver 5/8".....172
" wood countersunk 17
" carpenter 3
Tools, carpenter, kit.....21

SCREWS

Screws, wood .....20,250 gross
" eye, brass, wire, etc. 110,000
" miscellaneous, 568,003

BRUSHES

Brushes, paste, scrub, varnish, whitewash, large assortment.

HOSE

Hose, cotton fire, rubber-lined, 2 5/8" with coupling .32,450 ft.
Latches, night 869
Paper, emery 00.....61 quires
" " 1/2 .....32 "

PLIERS, PINCHERS, ETC.

Pliers .....248 prs.
Pinchers, B.S., 10, 12 and 14-inch 3,090
Presses, baling 16x36 to 30x42 9
Punches, B.S., countersunk, square, round, center, etc., all sizes 4,821
Wrenches, pipe, socket, monkey, asst. 2,165

SAWS

Saws, buck, circular rip, compass, hack, etc. 4,200
Scales, balance, spring..... 70
" counter and platform, Fairbanks 1,140
Pickaxes 2,188
Shovels .....8,256 misc.
Spades 3,376

BOLTS, MISCELLANEOUS

Bolts, carriage 407,596
" misc. 163,000
Wheelbarrows 513
Post hole diggers..... 456
Cleaners, window rubber..... 351
Chisels, cold, hot bricklayers, calking and wood 527
Bulbs, flashlight 5,762
Buckets, enamel, fibre, G. I. tin 62,157
Bobs, plum, all sizes 228
Wash basins 19,381
Couplings, steam hose, 3/4 to 2 5/8" 408
Irons, soldering, copper, all weights 600
Lanterns, Deitz 325

Surplus Property Control Officer

Candler Warehouse

ATLANTA, GEORGIA

TEAR OUT AND MAIL

Surplus Property Control Officer
Candler Warehouse, Atlanta, Ga.

Please send me the catalog of the March 23rd Auction Sale.

Name .....
Address .....
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WAR DEPARTMENT

Perry and Juniata Counties, R-195, Susquehanna Township, and Liverpool Township and Borough. Trinidad Asphalt Paving Co., Clarksville, Pa. $324,771.34.

McKean County, R-210, Eldred Township and Borough. Peter B. Colgan, Eldred, Pa. $150,973.20.

Northumberland County, R-18, Upper Augusta Township. Gregory Paving Co., Lewistown, Pa. $27,120.50.

Venango County, Route 65, Rockland and Cranberry Townships. The Kavanaugh-Denire Const. Co., Youngstown, O. $316,345.43.

Store and Dance Hall, Luzerne, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, C. Spiegel, Luzerne, Pa. Brick, steel, 2 stories, 40x80 feet, corrugated roof, hardwood floors, electric light, plate glass. Owner taking bids. W. B. Richards, 40 Carlisle street, and O. J. Behrens & Son, 179 Blackman street, Wilkes-Barre; R. T. Roselle, Kingston, Pa., and William Whitesell Westmoore, Kingston, Pa., are figuring.

Residence and Garage, Reynolds street, Kingston, Pa. Architect, R. E. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, J. T. Evans, Wilkes-Barre, Pa. Frame, shingle, 2½ and 1 stories, 45x32 feet and 18x20 feet, shingle roof, hardwood and concrete floors, hot water heat, electric light, tile work. Architect ready for sub-bids.

Residence (alts.) to Apartment, Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, A. D. Campbell, 815 Jefferson avenue, Scranton, Pa. Stucco, 1 story, partition work, slag roof, pine floors, steam heat, electric light, tile work. Plans in progress.

Bank (alts.), Wilkes-Barre, Pa. Architects, Sturtevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Union Savings Bank & Trust Co., Wilkes-Barre, Pa. New front, hardwood floors, steam heat, electric light, tile and marble work, skylights, roof ventilators, metal window guards. Architect taking bids due March 15th.

Store and Apartments, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, A. S. Hershey, York, Pa. Brick, 3 stories, 32x90 feet, tin roof, hardwood floors, vapor heat, electric light, metal lath, dumb waiter, rolled steel sash and skylights, fire doors, bulks, structural steel, roof ventilators, tile and marble work. Plans will be ready for bids April 1st.

Store Front, York, Pa. Architect, H. E. Yessler, York, Pa. Owners, Edward Fox Estate, York, Pa. Marble and tile work, plate glass, structural steel, copper work, hardwood floors. Ready for bids.

Store and Apartment, Pittston, Pa. Architects, Russoniello & Price, Scranton Life Building, Scranton. Owner, R. Antonello, 10 Spring Valley, Pittston, Pa. Brick, 2 stories, 55x37 feet, slag roof, hardwood floors, steam heat, electric light, copper work, plate glass, metal ceilings. Owner taking bids. Elimo Brothers, Scranton, Pa., figuring.

Residence, Delaware avenue, Olyphant, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owner, M. F. Cannon, 101 South Valley avenue, Olyphant, Pa. Frame, stucco, 2½ stories, 28x38 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due March 20th. Hagen Lumber Co., Hickory and Mattes streets; Stender Brothers, Providence road and Albright avenue, Scranton, Pa., and Peck Lumber Co., Olyphant, Pa., are figuring.

Stores (3), Apartments (6), Offices (4), Nanticoke, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Hollow tile, stucco and steel, 3 stories, 75x113 feet, slag roof, hardwood floors, vapor heat, electric light, tile work, metal lath. Architect will take bids in two weeks.

Garage and Sales Room, Hill Side, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, William Gabriel, Trucksville, Pa. Steel, fireproof, 3 stories, 34x150 feet, slag roof, concrete floors, steam heat, electric light, metal lath. Owner taking bids.

Store Building, Adams and Spruce streets, Scranton, Pa. Architects, C. H. Davis and M. D. Lewis, Union Bank Building, Scranton, Pa. Owners, Stoehr & Fisher, 121 North Washington avenue, Scranton. Terra cotta, steel, reinforced concrete, 6 stories, 88x155 feet, concrete roof and floors, electric light, hollow tile, metal lath, passenger and freight elevators, rolled steel sash, fire doors, water and dampproofing, iron stairs and work. Architect will take bids March 10th.

Residence, Taylor, Pa. Architects, Morris & McHale, Mear Building, Scranton, Pa. Owner, J. A. Powell, Taylor, Pa. Frame, stucco, 2 stories, 32x36 feet, tile roof, hardwood floors, vapor heat, electric light, tile work. Architect taking bids due as soon as possible. Taylor Duryear Lumber Co., Taylor, Pa.; Power & Stender and Stender Brothers, Scranton, Pa., figuring.

Warehouse, Wilkes-Barre, Pa., $50,000. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Nelson Brothers, 38 Baltimore street, Wilkes-Barre, Pa. Brick, mill construction, slow burning, 5 stories, 40x80 feet, slag roof, pine floors, electric light, freight elevators, rolled steel sash, fire doors, iron stairs, water and dampproofing. Architect taking bids. Eckenrode Brothers, Wilkes-Barre; A. Hildebrand, 91 Wood street; O. J. Behrens & Son, 179 Blackman street, and Luther Roth, Wilkes-Barre, Pa., and Stewart Const. Co., Easton, Pa., figuring.

Apartment and Store, Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Patrick O'Donnell, East Market street, Wilkes-Barre, Pa. Brick, 3 stories, 25x75 feet, slag roof, pine floors, steam heat, electric light, tile and marble work, metal lath, rolled steel skylights, metal ceilings. Owner taking bids. J. E. James & Sons, Laning Building; J. M. Gaynor, 77 South Grant street, and Builder Northstrow, Wilkes-Barre, Pa., and William Whitesell, Westmoore, Kingston, Pa., figuring.

Residence (Bungalow), Willow Grove, Pa. Architect, private plans. Owner, William C. Voightsberger, Willow Grove, Pa. Frame, 1 story, 38x26 feet, wing 10x12 feet, cement foundations, shingle roof, North Carolina pine floors, hot water heat, electric light. Owner taking bids due March 9th. Roy Randall, Horsham, Pa., figuring.

Residence, Stroudsburg, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Thomas I. Wheeler, Stroudsburg, Pa. Frame, 2 stories, 32x40 feet, shingle roof, pine floors, electric light. Owner will build.

Residence (alts.), West River street, Wilkes-Barre, $50,000. Architect, R. E. Poggi, Miners' Bank Building, Wilkes-Barre. Owner, name withheld. Plate glass, new doors, cabinet work and decorating, hardwood floors, hot water heat, electric light. Architect ready for sub-bids.

Church, Wilkes-Barre, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Westminster Presbyterian Church, Wilkes-Barre, Pa. Stone, 1 story and basement, slate roof, hardwood floors, electric light. Too early for details.

Apartment House, Wyoming and Pierce streets, Kingston, Pa. Architect, R. E. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, J. B. Reynolds, Kingston, Pa. Construction not decided. Five stories, 40x110 feet. Sketches in progress.

Residence and Garage, West River and Ross streets, Wilkes-Barre, Pa. Architect, R. E. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, A. H. Bleckley, Dorranceton, Pa. Stone, 2½ stories, 51x60 feet, graded slate roof, hardwood floors, electric light, tile and marble work. Plans in progress.

Stores and Loft, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Gartner Building, care of architect. Brick, 3 stories, 50x70 feet, slag roof, concrete and pine floors, steam heat, electric light, tile and marble work, metal ceiling. Plans in progress.

Residence, Riverside Drive, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Jacob Stakulsky, care of architect. Brick, 2½ stories, 36x42 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Bath House, Griffith Park, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, City of Wilkes-Barre, care of C. C. Shiber, City Hall, Wilkes-Barre. Brick, 1 story and basement, 30x45 feet, asbestos shingle roof, concrete floors, electric light. Plans in progress.

Cottage, Harvey's Lake, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Benjamin Horn, Wilkes-Barre, Pa. Frame and shingle, 1½ stories, 28x45 feet, shingle roof, pine floors, electric light. Plans in progress.

School, Abington Township, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School Board of Abington Township, William F. Wooley, president, Noble, Pa., and Charles M. Doll, secretary, Elkins Park, Pa. Brick and steel, 8 rooms, auditorium seating capacity 400, gymnasium, manual training room and cafeteria. Plans in progress.

Twin Bungalow, North Wales, Pa., $6,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Gomer Bros., 3416 Mascher street, Philadelphia. Plans completed. Ready for bids.

Bungalow, Lansdale, Pa., $4,000. Architect, M. B. Bean, Lansdale, Pa. Owner, G. W. White, Lansdale, Pa. Preliminary plans in progress.

Residences (3), Bala, Pa. Architect, Richard R. Neely, 2136 Pine street, Philadelphia. Owner, Mrs. Gladys E. Kendrick, 25 Conshohocken Road, Bala. Stone and frame, 2½ stories, 26x40 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans completed.

Hospital, Chester, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. James Hospital, Chester, Pa. Architects taking bids, due March 22 at 2 P. M. J. Myers & Sons, Witherspoon Building; Wm. R. Dougherty, 1610 Sansom street; Turner Const. Co., 1713 Sansom street; Stang & Mitchell, Real Estate Trust Building; Cramp & Co., Denckla Building; Robt. E. Lamb Co., 843 N. Nineteenth street; Hughes Foulkrod Co., Commonwealth Building, Philadelphia; Wm. Provost, Jr., Chester Const. & Cont. Co., and R. H. Scroggins, all of Chester, Pa., are figuring.

High School, etc., Haverford, Pa. Architects, Boyd, Abel & Gugert, Estey Building, Philadelphia. Owners, Board of Education, Haverford, Pa. Owners taking bids, due March 13th. W. D. Smedley, Narberth, Pa.; F. V. Warren, 32 South Seventeenth street; William Linker, 335 Cherry street; M. Melody & Son, 1322 Race street; F. M. Harris & Co., 1520 Parrish street; Edw. Fay & Son, 2 South Mole street; H. John Homan Co., 1703 Chestnut street; Sinclair & Griggs, Medical Arts Building; M. H. McCloskey, Inc., 1520

Thompson street; W. H. Gibson, Harrison Building; Kober Const. Co., 34 South Thirteenth street, Philadelphia; Wolfe & Co., Bryn Mawr, Pa., and Vincenzo Di Francesco, Narberth, Pa., and Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia, are figuring.

Supplies, Harrisburg, Pa. Owners, Pennsylvania State Highway Department, George H. Biles, Assistant State Highway Commissioner, Harrisburg, Pa. Corrugated metal and reinforced concrete culvert pipe. Owners taking bids, due March 10th at 10 A. M.

Pennsylvania Contracts Awarded

Factory, Hazleton, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Liebovitz & Son, Inc., care of architect. Brick factory construction, 2 stories, 150x75 feet and 22x35 feet, Johns Manville roof, plank floors, steam heat, electric light, rolled steel sash, fire doors, freight elevators. Contract awarded to Central Const. Co., Harrisburg, Pa.

Residence (alts.), Whitemarsh Township, Pa. Architect, John Graham, Jr., 10 South Eighteenth street, Philadelphia. Owners, Philadelphia Cricket Club, on premises. Stone and frame, cement work, masonry, mill work, carpentry, plastering, painting, glazing. Contract awarded to E. Allen Reeves, Inc., Abington, Pa.

Residence (alts. and add.), Cynwyd, Pa. Architect, Thomas B. Lippincott, 10 South Eighteenth street. Owner, Dr. Edward Campbell, 310 Kent road, Cynwyd, Pa. Enclosed porch, 26x20 feet, slag roof, composition floor, electric light. Contract awarded to William J. Ryder, 1716 Sansom street, Philadelphia.

Store and Residence, Butler avenue, Ambler, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Mrs. C. Marvin Riley, Ambler, Pa. Tapestry brick and stucco, 3 stories, 20x70 feet, slag roof, cement and pine floors, steam heat, electric lighting, terra cotta, copper bulks. Contract awarded to C. J. Kemmerer, Ambler, Pa.

Garage, Scranton, Pa. Architects, Russoniello & Price, Scranton Life Building, Scranton. Owners, Thomson & Roberts, Scranton, Pa. Hollow tile, 1 story, 80x160 feet, concrete floors, electric light, metal lath, rolled steel sash and skylights, roof ventilators. Contract awarded to Lackawanna Const. Co., Real Estate Exchange, Scranton.

Bank, Danville, Pa., $75,000. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, First National Bank, Mr. Pursell, president, Danville, Pa. Brick, limestone, 1 story, 40x85 feet, slag roof, marble work, hollow tile, electric light, tile and marble work, roof ventilators. Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

Stores (alts.), 48 South Main street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Belmont Stores Co., care of architects. Plate glass, marble and tile work, electric light, metal ceilings. Contract awarded to Walborn & Barney, 175 Race street, Wilkes-Barre, Pa.

Store Building, Main street, Wilkes-Barre, Pa. Architects, Knapp & Bosworth, 16 South Franklin street, Wilkes-Barre. Owner, Mrs. James F. Rusling, care of architects. Brick, steel, 3 stories, 40x209 feet, slag roof, cement floors, steam heat, electric light, tile and marble work, rolled steel sash. Contract awarded to O. J. Behrens & Son, 179 Blackman street, Wilkes-Barre.

Store and Warehouse, South Penn avenue, Wilkes-Barre, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre. Owners, Eastern Pennsylvania Supply Co., W. H. Conyngham, Wilkes-Barre. Brick, fireproof, steel, 6 stories, 52x185 feet, slag roof, plank floors, electric light, metal lath, freight elevators, rolled steel sash, fire doors. Contract awarded to Turner Const. Co., Buffalo, N. Y.

Stores (alts.), Washington and South streets, Wilkes-Barre. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Cohen & Fein, 201 South Washington street, Wilkes-Barre. Brick, 150x150 feet, steam heat, pine floors, tile work, copper work, rolled steel skylights, metal ceilings, ornamental iron work. Contract awarded to O. J. Behrens & Son, 179 Blackman street, Wilkes-Barre.

Garage, Kingston, Pa. Architects, Knapp & Bosworth, 16 South Franklin street, Wilkes-Barre. Owners, Imperial Motors Corporation, 45 West Market street, Wilkes-Barre. Brick, steel, 2 stories, 200x50 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, fire doors, metal lath, elevator, roof ventilators. Contract awarded to John Curtis & Co., 1 Hickory street, Wilkes-Barre.

New Jersey Construction News

Stores (2) and Apartment, Phillipsburg, N. J. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, name withheld. Brick, 2 stories, 46x50 feet, slag roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Underground Comfort Station, South Plaza, Camden, N. J. Architects, Lackey & Hettle, 509 Federal street, Camden, N. J. Owners, Camden County Board of Freeholders, Court House, Camden. Brick, steel and cut stone, irregular size, concrete roof, cement floors, metal lath, waterproofing and dampproofing, iron work, Bond, marble and terrazzo work, steam heat, electric work. Lowest bidders: William Linker Co., 735 Cherry street, Philadelphia, $26,095; J. B. Kelly, 2313 Walnut street, Philadelphia, $28,976. Electric work, Bornstein Co., 930 Broadway, Camden, $650. Plumbing, William J. Kelly, 675 Ferry avenue, Camden, N. J., $12,470. Heating, Deckman Plumbing & Heating Co., 23 Broadway, Camden, $950.

Juvenile Detention House, 422 North Second street, Camden, N. J. Architects, Lackey & Hettle, 509 Federal street, Camden, N. J. Owners, Board of Chosen Freeholders, Court House, Camden, N. J. Brick and steel, 3 stories, 15x12 feet, Barrett roof, cement and linoleum floors, metal lath, steam heat, electric light, tile, marble and terrazzo work, hollow metal sash and skylights, Bond. Lowest bids submitted by J. M. Yardley, 1716 Sansom street, Philadelphia, $16,871; H. John Homan, 1703 Chestnut street, Philadelphia, $16,900. Electric work, J. F. Buchanan Co., 1719 Chestnut street, $987. Plumbing, William J. Kelly, 675 Ferry avenue, Camden, $6,290. Heating, Deckman Plumbing & Heating Co., 23 Broadway, Camden, $1,720.

Bank (alts. and add.), Trenton, N. J. Architect, William A. Kleeman, Trenton, N. J. Owners, First National Bank, Trenton, N. J. Hollow tile, stone, granite and steel, 5 stories, mezzanine and banking floor, 40x80 feet, slag roof, concrete, cork and pine floors, steam heat, electric light, marble work, metal lath, hollow metal sash, copper skylights, fire and hollow metal doors, waterproofing. Architect taking bids due March 11th. Wills, Bill Co., 1706 Sansom street, Philadelphia; Amsterdam Building Co., 140 West Forty-second street, New York; Fred. Parker, 327 Calhoun street; S. W. Mather & Son, Greenwood and Canal streets; Burton & Burton, American Mechanics' Bank Building; J. H. Morris Co., Broad and Hudson streets; Karno-Smith Co., Broad Street Bank Building, all of Trenton, N. J., are figuring.

Bank, Store and Apartments, Blackwood, N. J. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owners, South Jersey Bank, Blackwood, N. J. Brick and steel, 2 and 1 stories, 77x44 feet, slag roof, steam heat, electric light, marble work, oak and pine floors, marble work, plate glass, ornamental iron work. Architect taking bids due March 15th. Wills,Bill Co., 1706 Sansom street, Philadelphia; Fred. Lange, Audubon, N. J.; James W. Draper, Camden, N. J.; George W. Shaner & Son, Palmyra, N. J.; John Shone, Blackwood, N. J.; Charles Seybold & Son, Clementon, N. J., and George Brandt, Blackwood, N. J., are figuring.

School, Mt. Ephraim Pike, Camden, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, School Board, Centre Township, Camden, N. J. Architect selected. Too early for details.

Residence, Mansion avenue, Haddonfield, N. J. Architect, Ellery K. Taylor, 315 South Fifteenth street, Philadelphia. Owner, Edward W. Marshall, 244 Centre avenue, Haddonfield, N. J. Frame, 2½ stories, 35x45 feet, garage and poultry house, 18x30 feet, shingle roof, pine and cement floors, electric light, tile work (hot air or vapor heat reserved). Plans in progress. Architect will take bids in three weeks.

Apartment House, Atlantic and Dover avenues, Chelsea, N. J. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, Mrs. Lieberman, care of architect. Brick and stucco, 3 stories, 105x150 feet, Spanish tile roof, hardwood floors, modulated steam heat, electric lighting, tile work. Architect taking sub-bids due March 10th.

Residence, Dean street, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, F. W. Consolloy, 1218 West State street, Trenton, N. J. Hollow tile and stucco, 2½ stories, 36x26 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids due March 10th.

Residence, Hanover street and Camden street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, H. W. Reynolds, 176 West State street, Trenton, N. J. Brick, 3 stories, 19x72 feet, slate and tin roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids.

Store and Office (add.), Montgomery and Hanover streets, Trenton. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Fitz Charles Dry Goods Co., on premises. Brick, 5 stories, 25x62 feet, slag roof, pine floors, electric light, tile, marble and terrazzo work, metal lath, hollow metal sash, fire doors. Architect will be ready for bids next week.

School (add.) (Klockner School), Hamilton Township, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owners, Hamilton Township School Board, William A. Robinson, Greenwood street, Trenton, N. J. Brick, 2 stories, slate roof, hardwood floors, hollow tile, metal lath, marble work (plumbing, heating and ventilating reserved). Architect will take bids next week.

Apartment and Store (add.), Trenton, N. J., $8,000. Architect, . RG. Consolloy, Commonwealth Building, Trenton, N. J. Owner, T. E. Weeden, 243 North Warren street, Trenton, N. J. New roof, hardwood floors, steam heat, electric light, tile work. Architect taking bids. Harper Clayton, American Mechanics' Bank Building, and J. H. Morris Co.,

Broad and Hudson streets, Trenton, N. J., are figuring.

Synagogue, Maryland and Pacific avenues, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Congregation of Beth Kellilath, Atlantic City, N. J. Architect taking revised bids. Lam Building Co., 1001 Wood street, Philadelphia, are figuring.

School, Dining Hall, Cottages, Boiler House and Pump House, Scudder's Farm, near Trenton Junction, N. J. Architects, Gilbert & Betelle, Newark, N. J., and Arnold H. Moses, Temple Building, Camden, N. J. Owners, New Jersey School for the Deaf, Commissioner of Education, State House, Trenton, N. J. Owners taking bids, due March 28th, on general construction. Plumbing, heating, lighting and sewage plant separate bids. Deposit $50.00.

Passenger Station, between Fourteenth and Fifteenth streets, Ocean City, N. J. Architect, private plans. Owners, Philadelphia & Reading R. R., Reading Terminal, Philadelphia. Brick, stone and steel. Plans in progress.

Store and Apartments, Massachusetts avenue, Atlantic City, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City, N. J. Owner, Samuel Schlechter, Atlantic City, N. J. Brick, 3 stories, 25x100 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, rolled steel skylights, waterproofing. Architect taking bids, due March 13th. Lam Building Co., 1001 Wood street, Philadelphia, is figuring.

Home for Girls, Atlantic City, N. J., South Pennsylvania avenue. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owners, Stella Marvis Catholic Daughters of America, care of Rev. Dr. Shennan, Tennessee and Pacific avenues, Atlantic City, N. J. Brick, 4 stories, 60x106 feet. Plans in progress.

New Jersey Contracts Awarded

High School, Swedesboro, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Swedesboro School Board, Hugh McCullough, president, Swedesboro, N. J. Contracts awarded but not yet signed to: Sinclair & Griggs, Medical Arts Building, Philadelphia; electric work, United Electric Co., 1727 Sansom street, $4,663; heating and plumbing to D. J. Keating, 2042 Rittenhouse street, 117,578 and $9,777.

Apartment House, Ocean City, N. J., $75,000. Architect, Adin B. Lacey, 1012 Walnut street, Philadelphia. Owner, J. Frank Shellenberger, care of architect. Brick and terra cotta, 3 stories, 75x72 feet, slate roof, pine floors, hollow tile, metal lath, iron work, tile work, electric work, plumbing. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

School (add.), Pennington Road, Ewing Township, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Ewing Township School Board, Ewing Township, N. J. Brick, 1 story and basement, 4 rooms, slate and slag roof, maple floors. Contract awarded to C. Y. Barlow, Brook street, Trenton, N. J.

School, Parkway, Ewing Township, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Ewing Township School Board, Ewing Township, N. J. Brick, 1 story and basement, stone foundations, slag and slate roof. Contract awarded to Harrison & Fisher, Trenton, N. J.

Business Building, Lexington avenue, Trenton, N. J., $7,500. Architect, private plans. Owner, E. R. Huddy, 755 Cass street, Trenton, N. J. Brick, 2 stories, 40x100 feet, slate roof, pine floors, steam heat, electric light. Contract awarded to William Hicks, 1402 West State street, Trenton, N. J.

Residences (2), Columbus avenue, Trenton, N. J. Architect, private plans. Owner, Henrietta Thum, Trenton, N. J. Stucco and frame, 2½ stories, 22x54 feet, slate roof, pine floors, electric lighting. Contract awarded to J. O. Goettan, 415 Chambers street, Trenton.

Miscellaneous Construction News

Auditorium, Winston-Salem, N. C., $400,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Mrs. J. Edward Johnston, Winston-Salem, N. J. Brick, concrete, steel, hollow tile, 1 story, 100x200 feet, 2,000 capacity, slag roof, electric lighting, iron work. Plans in progress.

Garage, Binghamton, N. Y. Architects, Russoniello & Price, Scranton Life Building, Scranton. Owners, Purity Beverage Co., Binghamton, N. Y. Hollow tile and stucco, 2 stories, 34x60 feet, slag roof, concrete floors, steam heat, electric light, freight elevators, rolled steel sash, fire doors. Architect ready for bids.

Residence, Binghamton, N. Y. Architects, Russoniello & Price, Scranton Life Building, Scranton. Owner, John Varvo, Binghamton, N. Y. Hollow tile, 2½ stories, 32x48 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect taking bids.

Proposals

LAW BUILDING
at
WEST VIRGINIA UNIVERSITY
Morgantown, W. Va.

NOTICE TO CONTRACTORS

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 4.00 P. M. Friday, March 31st, for doing all work and furnishing all materials necessary to complete the building described below, according to the plans and specifications of Charles W. Bates, Architect, Wheeling, W. Va.

The building is to be 144 feet x 56 feet, two stories and basement, fireproof construction, exterior of face brick, and stone; interior wood finish of oak, main corridors and stairway of marble, interior partitions of hard tile, roofing tile, flooring, maple, tile, marble and linoleum. Basement contains locker rooms, toilets, club rooms, machinery room, storage and packing room. First floor contains three class rooms, practice court, girls' club rooms. Second floor contains reading room, stack room, professors' offies, librarian's office.

Plans, specifications and blank form for bids will be mailed by the State Board of Control when request is accompanied with check for $10.00, five dollars of which will be refunded on return of plans accompanied with bona fide bid. Separate bids will be taken on wiring, plumbing and heating.

Bids to be accompanied by certified check payable to the State Board of Control for an amount equal to one per cent. (1%) of the bids, as guarantee of good faith.

STATE BOARD OF CONTROL
By James S. Lakin, President
Charleston, W. Va.

INVITATION FOR PROPOSALS.

GENERAL ADVERTISEMENT ON THE CONSTRUCTION OF BUILDINGS FOR NEW JERSEY SCHOOL FOR THE DEAF

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct a School and Dining Hall combined—several cottages, Boiler House, and Pump House where shown on plot plan, on ground known as the Scudder Farm, near Trenton Junction, N. J., for the New Jersey School for the Deaf, will be received and opened by the Architects at the office of the Commissioner of Education, State House, Trenton, New Jersey, on March 28th, at eleven (11) o'clock A. M.

The work for which proposals are hereby invited covers the complete construction of the School Building and Dining Hall combined, and several cottages, the Boiler House and the Pump House, including water supply, eleteric work, heating and ventilating, and drainage, all ready for movable equipment.

Bids will be received for the work under five separate contracts as follows:

1. For general construction of entire group of buildings consisting of the School and Dining Hall building combined, the cottages, and the Boiler House.
2. For plumbing work for the entire group of buildings as above.
3. For the electrical work for the entire group of buildings as above.
4. For the heating work for the entire group of buildings as above.
5. For sewage disposal plant with Pump House complete.

The right is reserved to accept or reject any or all proposals. All bids must be in sealed envelopes endorsed "Proposal for New Jersey School for the Deaf," and stating the branch of work covered. No bid will be considered unless accompanied by a certified check to the order of the State of New Jersey, in the amount of five per cent. of the bid, or bid bond in like amount, binding the bidder to execute a contract if awarded to him. The terms of proposal with surety required are fixed by the specifications.

Copies of the drawings and specifications will be on file at the office of the architects for the purpose of estimating. A limited number of copies of the plans and specifications will be loaned to the prospective bidders on deposit of a certified check to their order in the sum of $50. These plans may be obtained by application to Arnold H. Moses, Architect, Temple Building, Camden, New Jersey. If plans and specifications are returned or before the submission of estimates the check will be returned, but should the plans and specifications be not returned, the deposit may become forfeited.

Guilbert & Betelle,
Arnold H. Moses,
Associated Architects.

Dated March 4, 1922.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 28, 1922. Sealed Proposals will be opened in this office at 3 P. M., March 28, 1922, for the construction, including mechanical equipment, of the United States Post Office at Salem, Va., in accordance with drawings and specifications, which may be obtained from the Custodian of the site at Salem, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Reference Directory for Architects, Builders and Owners

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Artesian Well Drilling Co., Aramingo and Girard Ave., Phila.
Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

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Asbestos Shingle, Slate and Sheathing Co., 1927 Market St., Phila.

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Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E., Kensington and Lehigh Aves., Phila.

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French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E., Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

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Pralatt Equipment Co. .....Drexel Bldg., Phila.

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Pearce Fireproof Co.....1345 Arch St., Phila.

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Mineraloid Flooring Co. ....524 Drexel Bldg., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

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DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co.....Bulletin Bldg., Phila.

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Keystone Blue Paper Co. .....910 Filbert St., Phila.
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Warren-Knight Co. .....136 N. 12th St., Phila.
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Weil, J. H., & Co. .....1304 Arch St., Phila.

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Keystone Blue Paper Co. .....910 Filbert St., Phila.
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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

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Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

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Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

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Cyclone Fence Co.....Stock Exchange Bldg., Phila.
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Wayne Iron Works..Commercial Trust Bldg., Phila.

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Pearce Fireproof Co. .....1345 Arch St., Phila.

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Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

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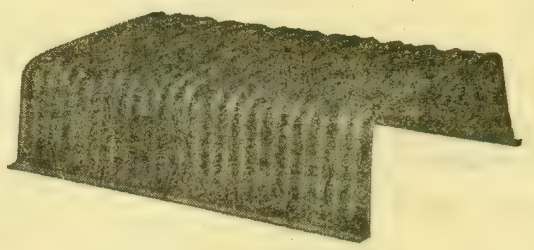
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVII, No. 11
March 15, 1922

Issued Weekly in the Interests or Architects, Structural Engineers, Contractors and the Material and Equipment Trades

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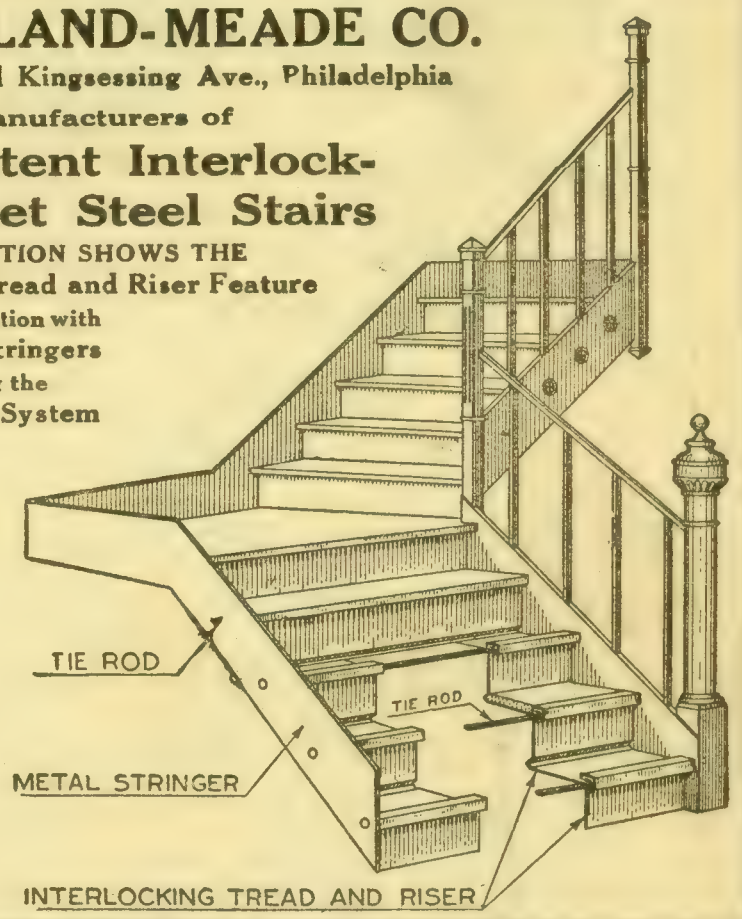
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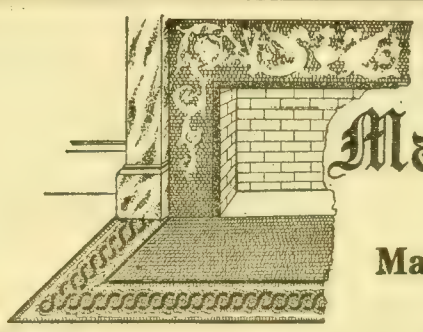
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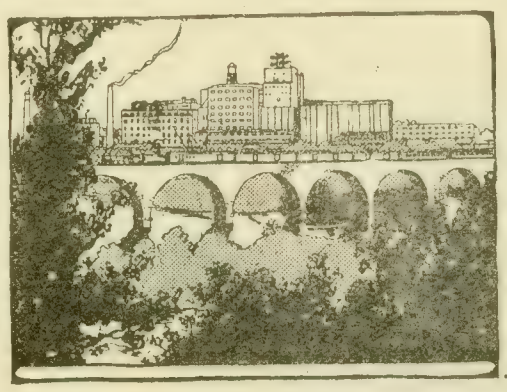
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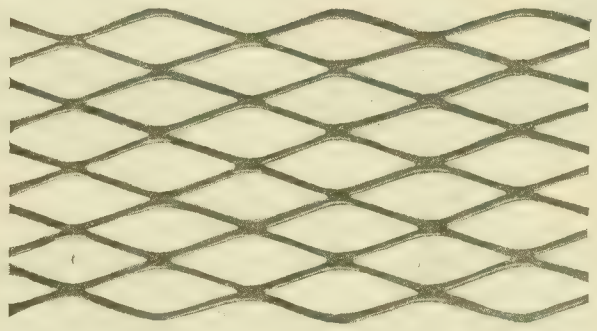
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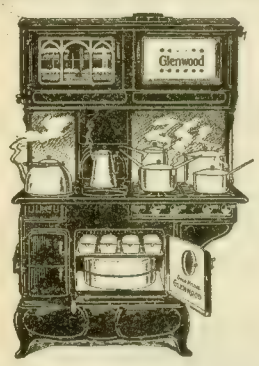
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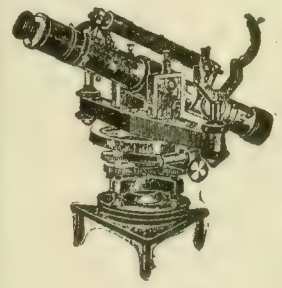
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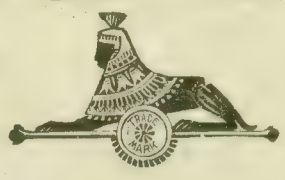


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Number 11

PHILADELPHIA
March 15, 1922

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As The Editor Sees It

ELIMINATION of waste is of paramount importance to every industry in the country, and of particular importance to the Building Industry, which has suffered greatly in the past and still is hampered by waste in all its departments. The war has taught us how costly inefficiency, lack of coordination and harmony can be—the cry then was "it must be done no matter what the cost," and we are now realizing to the full extent in taxes just what it all meant.

The elimination of waste was given great prominence at the recent annual convention of the National Association of Builders' Exchanges held in Memphis, Tenn., when Mr. E. W. Reaugh, of Cleveland, Ohio, presented for consideration the following statement and tentative resolution, the resolution being later unanimously adopted by the convention.

"The building industry has passed through several years of preventable turmoil and strife. Needless to say, labor relations have been the cause of most of the difficulties. However, the fact remains that other conditions exist which are detrimental to the industry.

Over organization and over specialization in the building industry has been a source of inefficiency and unnecessary expense. In Cleveland there are 21 trade associations, a Building Trades Employers' Association, a Builders' Exchange, a Chapter of the Associated General Contractors and several other organizations of material dealers and financial interests.

We have the National Association of Builders' Exchanges, the oldest organization in the building industry; the various State Associations of Builders' Exchanges, and the National Building Trades Employers' Association. In addition to these, there are the following National Associations:

The Associated General Contractors of America,
The American Institute of Architects,
The Federation of Engineering Societies,
The National Federation of Construction Industries,
The Congress of Construction Industries,
The American Railway Engineering Society,
The Society of Western Engineering,
The Mason Contractors' Association of U. S. and Canada,
A. F. of L. (Building Division),
And numerous others.

Each of these organizations must justify its existence in the future by performing a definite economic service. The overlapping and waste in organization should be removed. The most serious indictment against the building industry at this time is—waste. We are not only wasteful in the conduct of our business, but we permit waste in organization.

As an Association of Builders' Exchanges, we have no right to existence, unless we perform a definite economic service. If our program of activities is analagous to the activities of other organizations, some means should be created to eliminate the duplication of effort.

There are some trade organizations—local and national—set up to restrict competition. These organizations have a purely selfish reason for existence. Through collusion attempts are made to harness the law of supply and demand. They fix prices and have trade practices that are unethical and in some cases unlawful.

We are under a cloud as an industry. We have an indictment against us of over organization—we are wasteful—we condone and passively support those organizations which have brought dishonor to our industry.

Let us at this meeting go on record to the effect that we will do all in our power as individuals, as local Builders' Exchanges and as a National Association of Builders' Exchanges, to bring about unification of organization.

The creation of a National Conference Board composed of the presidents and secretaries of all National organizations in the building industry could act as a Clearing House to prevent duplication of effort; each organization would

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be allotted that work which it can best perform.

The Conference Board would be a powerful factor in correcting trade abuses.

It would through its combined membership be representative of the entire industry.

Under this plan each National organization could do better work in its respective field, and it would have the support of all members of the Conference Board.

The Department of Commerce, because of its interest in construction problems and in the elimination of waste, should be represented on this Conference Board.

In order to crystallize these thoughts at this meeting, the following resolution is offered for consideration:

BE IT RESOLVED, That the officers and Board of Control of the National Association of Builders' Exchanges be instructed to take the initiative in the formation of a National Conference Board composed of the executive heads of all National organizations in the building industry.

Other important resolutions passed by the convention are:

RESOLVED: That this association views with great solicitude the serious discouragement of investment in private construction through the freedom from taxation of income from investments in bonds issued by the state or by municipalities existing under state authority; that this association believes that this serious evil should be remedied by the passage of a declaratory amendment to the existing income tax provision of the constitution under which authority could be given to congress to tax incomes derived from state and municipal bonds on exactly the same basis as incomes derived from other sources: that a copy of this resolution be forwarded by the sec'y of this convention to the Senate and the House of Representatives of the U. S.

RESOLVED: That the National Association of Builders' Exchanges appreciates the need of a reduction for governmental expenses to the lowest possible figure and therefore extends its commendation to the President of the United States and the Director of the Budget Gen. Chas. G. Dawes, acting under his supervision, to the Hon. Martin B. Madden, chairman of committee on appropriations of the House of Representatives, and to the Hon. Francis E. Warren, chairman committee on appropriations of the Senate for their arduous and up to this time successful efforts to reduce governmental expenditures and expressed the hope that these efforts may be continued to the end that the heavy burdens of taxation now placed upon the industry of the country may be substantially reduced.

RESOLVED: That the National Association of Builders' Exchanges is convinced that the necessity of the country for a reduction of burdens from taxes arising out of the war, forbids the payment of a cash bonus to the able-bodied soldiers who served in the World War; that it is not practicable to issue bonds for this purpose, since this would interfere with pressing refunding needs and would lower the present value of all indebtedness of the United States; that this association favors the most liberal expenditure for the relief of the disabled soldiers of the World War and for the aid of the widows and children of those who gave their lives to the country.

THAT this Association directs that the foregoing resolution shall be sent to the President of the Senate and the Speaker of the House of Representatives; that a copy of it shall be communicated to each Builders' Exchange throughout the country, with the suggestion that the subject be taken up at each Exchange and the views of each Exchange be communicated to the senators and representatives from the state in which the Exchange is situated.

THAT individual members of the Exchange be advised that in the opinion of this Association their views should be communicated by letter to their senators and representatives so that they may understand correctly the sentiment of the business men in the construction industry upon this important subject.

Simplification of building materials as a means of eliminating waste in industry was discussed at a recent conference held between officials of the Department of Commerce and representatives of architectural, engineering and building organizations.

The Fabricated Production Department of the Chamber of Commerce of the United States is co-operating with the Department of Commerce and the industry in the movement.

The work of the meeting may be summed up in the following resolution which was adopted:

"WHEREAS the undersigned committee of Architects, Contractors and Engineers are fully in accord with Secretary Hoover's program for elimination of waste as a major means to the stimulation of American Business, and

"WHEREAS prominent among the many factors which contribute to such wastes in building as evidenced by the high cost of construction are the multiplicity of types and the great variety of dimensions which now abound in many of the component parts, which enter construction, and

"WHEREAS the cost of construction will undoubtedly be thereby lessened, the industry stimulated, and interest of the public conserved by dimensional simplification;

"*Be it resolved* that this Committee formed to discuss the subject of dimensional simplification recommends to the Department of Commerce that the Division of Simplified Practice study certain essentials parts of construction with a view to simplify the types and lessening the number of different dimensions of those parts."

In selecting the items of building materials to be given attention first, the following were designated: millwork, plumbing, heating, interior wall construction, hardware, lighting fixtures, clay products, the latter including brick, tile of all kinds, terra cotta, sewer pipes, etc.

In giving these items attention, the Department will formulate sub-committees to bring together the manufacturers and others having to do with each particular commodity or service.

It is expected later that conferences of those manufacturing each of the commodities and all interested in these lines

(Continued on page 180)



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Hospital Annex, Sansom street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Jefferson Hospital, Tenth and Sansom streets, Philadelphia. Stone, steel, brick, limestone and concrete. Too early for details. Preliminary plans in progress.

Church and Sunday School, Fifth and Ruscomb streets, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Lindley Methodist Episcopal Church, Rev. E. F. Carson, 5100 North Fairhill street, Philadelphia. Stone, 1 story. Preliminary plans being prepared.

Bachelor Apartments, Southwest Corner Second and Venango streets. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owner, Edward C. Davis, 3336 North Broad street, Philadelphia. Brick, 3 stories. Plans in progress. Too early for details.

Moving Picture Theatre, West Philadelphia, location withheld. Architect, Solomon Kaplan, 929 Chestnut street, Philadelphia. Owner, name withheld. Brick, 1 story, 54x125 feet. Plans in progress. Will be ready for bids in about two weeks.

Bank Building, Old York road and Sixty-fifth avenue, Oak Lane, Philadelphia. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owner, Joshua M. Holmes, 6748 Old York road. Stone, 1 story. Preliminary sketches being prepared.

Residence, 1003 North Sixth street, Philadelphia. Architects, Clark & Dudnick, 23 South Sixteenth street, Philadelphia. Owner, Dr. M. Markowitz, 1001 North Sixth street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heat, electric lighting, tile work. Architects will be ready for bids in one week.

Store and Apartments (1) and Residences (31), Boyer street, Church Lane, Stenton avenue and Devon street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Isaac J. Miller, 811 Lex street, Philadelphia. Brick, 2 stories, 16x40 feet and 16x32 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Owner ready for sub-bids.

Six-Family House, Orthodox and Wyoming avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, F. W. Kennedy, 4622 Adams street, Philadelphia. Brick, 3 stories, slag and tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Owner is taking sub-bids.

Office Building, 1312-14-16 Arch street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street. Owner, J. C. Kahn, Morris Building, Philadelphia. Reinforced concrete and steel, 8 or 10 stories. Plans in progress. Owner will take bids.

Residence, Fifty-third and Woodbine avenue, Philadelphia. Architect, Thomas B. Lippincott, 10 South Eighteenth street. Owner, Isaac Levin, Bulletin Building, Philadelphia. Hollow tile and stucco, 2½ stories, 46x33 feet, Spanish tile roof, composition, oak and pine floors, hot water heat, electric light, tile and marble work, iron work. Architect taking bids due March 20th. William J. Ryder, 1716 Sansom street; Tourison & Tourison, 1310 Arch street; Gray Brothers, Rosemont, Pa.; Charles C. Pace, Merion, Pa., and Turnbull & Cornell, 20 South Eighteenth street, Philadelphia, are figuring.

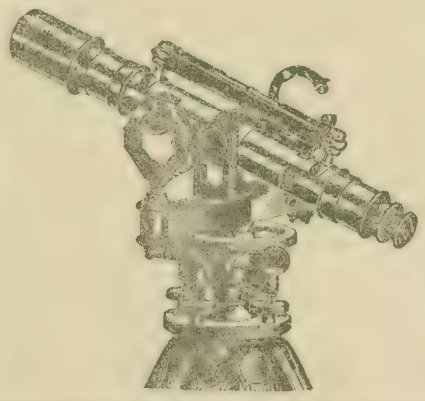
Stores (6) and Apartments (12), Frankford, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Dr. William S. Nicholl, Griscom and Dyer streets, Philadelphia. Stone and brick, 3 stories, 16x70 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal bulks. Owner taking bids from Austin Co., Bulletin Building, Philadelphia.

Manufactory, Rising Sun avenue, between Knorr and Rockland streets. Architects, Ballinger Co., Twelfth and Chestnut streets. Owners, Ardross Worsted Co., Bridge and Charles streets. Brick and steel, 2 stories, 159x83 feet, and 1 story, 172x92 feet. Architects taking revised bids due March 21st. Wark Co., 231 South Broad street; Irwin & Leighton, 126 North Twelfth street; Turner Const. Co., 1713 Sansom street; Barclay White Co., 1713 Sansom street; Cramp & Co., Denckla Building; H. E. Baton, 1713 Sansom street; Robert E. Lamb Co., 843 North Nineteenth street; F. M. Harris & Co., 1520 Parrish street; Hughes-Foulkrod Co., Commonwealth Building, and Penn Const. & Eng. Co., 3840 Spring Garden street, are figuring.

Store and Dwelling (alts.), 3632 North Broad street, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Thomas Marquahand, care of architect. New front, cut stone, steel and terra cotta, add. 1 story and basement, 18x16 feet, slag roof, oak and pine floors, electric lighting, tile and marble work, Bond (heat reserved). Architect taking bids due March 20th. Thomas C. Trafford, 1613 Sansom street; Joseph Cichiny, 10 South Eighteenth street; Chas. P. T. Clark, 3635 Germantown avenue; J. Y. Loux, Fifteenth and Hunting Park avenue, and John Shuster, 9150 North Watts street, figuring.

Y. M. C. A. Buildings, 1603-05-07 Catharine street and 756-58 South Sixteenth street. Architects, Morris & Erskine, 1716 Cherry street. Owners, Y. M. C. A. for Colored, on premises. Architects taking bids due March 21st. R. C. Ballinger & Co., 925 Walnut street; Robert E. Lamb Co., 843 North Nineteenth street; J. F. Trent, 2019 Master street; F. E. Wallace, 1220 Chancellor street; H. E. Grau Co., 1707 Sansom street; Wark Co., 231 South Broad street, and L. B. Thompson, Inc., 908 Shackamaxon street, are figuring.

Porter Street Pier, No. 84, South Wharves, Delaware River, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks & Ferries, Bourse, Philadelphia. Brick, hollow tile and steel, 1 story, 867x290 feet, asphalt and slag roof, asphalt block, cement with mastic covering floors, metal lath, platform and truck elevators, waterproofing, terra cotta, iron work, Bond, hollow metal doors and skylights, rolled steel sash. Owners tak-



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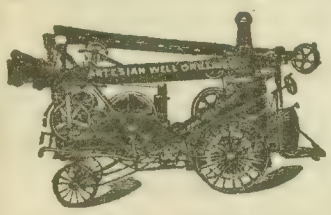
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ing bids due March 24th. Hughes-Foulkrod Co., Commonwealth Building; Snare & Triest, 1524 Chestnut street; John N. Gill Co., Otis Building, and J. S. Rogers, Drexel Building, are figuring.

United States Public Health Service Hospital, Twenty-fourth and Gray's Ferry road. Owners, United States Government, care of Dr. John J. Essex, Material Officer, premises. Repairs to showers, floors, walls, toilets, composition floors, plumbing. Owners taking bids due March 22nd at 2 P. M. Theriault Cont. Co., 534 East Johnson street, Philadelphia; J. P. Sullivan and George E. Wright, both of Chicago, Ill., are figuring.

Office (alts.), 6715 Germantown avenue. Architect, private plans. Owner, Victor Paul, on premises. Brick, 1 story, 20x22 feet, slag roof, pine floors, electric light, rolled steel skylights, iron work (heat reserved). Owner taking bids due March 16th. Tourison & Tourison, 1310 Arch street, are figuring.

Boilers and Appurtenances, County Prison, Holmesburg, Philadelphia. Owners, Board of Inspectors of Philadelphia County Prison, Tenth and Reed streets. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners taking bids due March 21st at 2 P. M.

Office Building, 731 Sansom street, Philadelphia. Architect, Arnold H. Mueller, 1713 Sansom street, Philadelphia. Owner, Joseph Goodman, on premises. Brick, steel, limestone and terra cotta, 3 stories, 57x22 feet, slag roof, flortyle and cement floors, hot water heat, electric light, tile and terrazzo work, rolled steel sash, copper skylights, metal lath, iron work. Architect taking bids due March 18th. J. H. Hinkle, Twenty-fifth and Delancey streets; William Steele & Sons Co., 1600 Parkway, Sinclair & Griggs, Medical Arts Building; Thomas C. Trafford, 1613 Sansom street; William R. Dougherty, 1610 Sansom street; Pierce Henon Co., Juniper and Pine streets, and Potts Brothers & Coopers, 129 North Eleventh street, are figuring.

Supplies, Philadelphia. Owners, City of Philadelphia, A. L. Acker, Purchasing Agent, 312 City Hall, Philadelphia. Electrical supplies, cable, lumber, filter dust, crushed stone and sand, paints and varnishes, etc. Owners taking bids due March 20th at noon.

United States Public Health Service Hospital No. 49, Philadelphia. Owners, United States Government, George F. Brewster, Surgeon (R.) in Charge, Custodian, Office of Custodian, Philadelphia. Repairs to this station. Owners taking bids due March 22nd at 2 P. M.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Frank H. Caven, Director, 216 City Hall, Philadelphia. Grading, asphalt paving, country road improving, asphalt repaving, redressed granite block repaving, curb and footway work, repairs to bridge, machine tools. Owners taking bids due March 17tn at noon.

Pier Superstructure, Porter street, 84 South Wharves, Delaware River, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, Bourse, Philadelphia, George F. Sproule, Director. Owners taking bids due March 24th at noon. Deposit $25.00.

Store (alts.), 5603-05 Market street, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street. Owner, name withheld. Brick work, iron, carpentry, mill work, slag roof, painting, glazing, electric work, tile and marble, plumbing, flush bulks. Architect taking bids due March 16th. Pierce Henon Co., Juniper and Pine streets, are figuring.

Building (remodeling), 228 North Delaware avenue, Philadelphia. Architect, private plans. Owners, Delaware River Bridge Joint Commission, William C. Sproul, Chairman; Joseph E. Costello, Secretary, Widener Building, Philadelphia. Furnishing all plant, tools, labor and materials for remodeling building to be used for field office purposes. Owners taking bids due March 17th at 2 P. M. Deposit, $10.00. Hurley Brothers, Bulletin Building, figuring.

Double Quarters for Officers (2) and Double Quarters for Non-Commissioned Officers, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, Office of the Constructing Quartermaster, Frankford Arsenal, Philadelphia. Brick, steel, frame and stone, 1 story, 29x27 feet and 20x26 feet, tin and slate roof, pine floors, metal lath, iron work, steam heat, electric light, tile work. Lowest bids submitted by: W. W. Anstine Co., 1218 Filbert street, Philadelphia, $41,600; Robert H. Dading, Bellevue Court Building, $41,900.

Residences (3), North side Courtland street, East of Front street, $4,500 each. Architect, private plans. Owner, Henry A. Barth, 4701 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x43 feet and 13x11 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Junior High School, Twenty-fourth and Snyder avenue. Architect, private plans. Owners, Board of Education, J. C. D. Cassell, Nineteenth above Chestnut street. Lowest bids submitted by M. Melody & Son, 1322 Race street, $566,870; P. H. Kelly Const. Co., 1713 Sansom street, $575,000. Plumbing, Walters, Purks & Mellon, Forty-first and Ludlow streets, $48,743. Heating, Charles Mundy, Philadelphia, $81,752. Electric Work, J. F. Buchanan Co., 1719 Chestnut street, $24,321. Cabinet Work, Fred. Gerry, 1835 Market street, $13,500. Ventilating, Charles Callahan, 42 North Second street, 3,790.

Residences (4), Sixty-fifth and Lebanon avenue, Philadelphia, $47,000. Architect, private plans. Owners, Moss & Taylor, Sixty-fifth and Haddington avenue, Philadelphia. Brick, 2 stories, (1) 22x45 feet, (3) 20x45 feet, slag roof, oak and yellow pine floors, central heating, electric lighting, tile work, metal lath. Owner will build.

Residences (7), Jackson street, South of Granite street, $3,250 each. Architect, private plans. Owners, George R. Osborne & Son, 5014 Saul street, Philadelphia. Brick, 2 stories, 17x30 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Store Building (alts.), 535 Market street, Philadelphia. Architect, not yet selected. Owners, Champion Incandescent Light Co., 235 Market street. Interior alterations, freight elevator. Work contemplated.

Residences (4), Ditman street, North of Magee street, Philadelphia, $2,750 each. Architect, private plans. Owner, Christopher Gercke, 7101 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, oak and yellow pine floors, hot air heat, electric light. Owner will build.

Residences (15), South side Eleanor street, West of D street, $3,500 each. Architect, Karl F. Otto, 5802 North Fifth street, Phila-

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delphia. Owner, William B. Davenport, 1315 Colwyn street, Philadelphia. Brick, 2 stories, 15x28 feet and 12x10 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences and Stores (2) and Residences (5), 3400-3412 Richmond street, Philadelphia, $23,500. Architect, private plans. Owner, Gustav Brucker, 3445 Richmond street, Philadelphia. Brick, 2 stories, 16x60 feet and 15 feet 9 inches x 26 feet, 12x13 feet, slag roof, oak and yellow pine floors, hot air heat, electric light. Owner will build.

Residences and Garages (5), Pine street, West of Forty-sixth street, and Southeast Corner Forty-seventh and Osage avenue, $20,000 each. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Clarence R. Siegel, Forty-seventh and Larchwood avenue, Philadelphia. Brick, stone and stucco, 2½ stories, 29x53 feet, slate and tile roof, oak and yellow pine floors, hot water heat, electric light, tile work, metal work. Owner will build.

Residences, (2), Northeast corner Benezet and Cresheim Valley, $13,000. Architect, private plans. Owner, George Woodward, Inc., North American Building, Philadelphia. Stone, 3 stories, 36x25 feet, slate roof, oak and yellow pine floors, steam heat, electric light. Owner will build.

Residences and Stores (2), Forty-eighth and Woodland avenue, $9,000. Architect, private plans. Owner, Hyman Barkan, 1520 South Sixth street, Philadelphia. Brick, 2 stories, 30½x60 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, 1 story add., 16 feet 4 inches x 12 feet 4 inches, general alterations. Owner will build.

Residences (2), North side Ardleigh street, East of Moreland avenue, $4,500 each. Architect, private plans. Owner, Henry C. O. Reilly, 110 West Abington avenue, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 48 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (17), Second and Ruscomb streets, Philadelphia, $88,000. Architect, private plans. Owner, Emil P. Stahl, 5209 North Third street, Philadelphia. Brick, 2 stories, 15x28 feet, 11x12 feet and 15x40 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Residences (15), L street, North of Sedgley avenue, Philadelphia, $3,500 each. Architect, private plans. Owner, George Edel, Hillcrest and Stenton avenues, Philadelphia. Brick, 2 stories, 18x29 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (10), Glenloch street, North of Tyson street, $4,000 each. Architect, private plans. Owner, E. Samuel Gercke, 3030 Tyson street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and yellow pine floors, hot water heat, tile work. Owner will build.

Residences (4), North side Fisher avenue, East of Rising Sun, $5,000 each. Architect, private plans. Owner, William G. Adams, 224 East Tabor road, Philadelphia. Brick, 2 stories, 20x36 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences and Garages (25), Ridgewood street, East of Fifty-seventh street, $4,700 each. Architect, private plans. Owners, Shapiro & Reed, 5300 Chestnut street, Philadelphia. Brick, steel, 2 stories, 16x32 feet, slag roof, oak, pine and cement floors, hot water heat, electric light, garages 8x16 feet. Owner will build.

Garage, Southwest Corner Atlantic and Palmetto streets, $6,000. Architect, private plans. Owner, J. S. Silver, 5116 North Camac street, Philadelphia. Brick, 1 story, 57x20 feet, 45x85 feet and 45x19 feet, slag roof, hot water heat, electric light, cement floors. Owner will build.

Garage, 1528-30-32 West York street, Philadelphia, $7,000. Architect, private plans. Owner, George Schwinn, Thirteenth and Lindley avenue, Philadelphia. Brick, 1 story, 52x88 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Residence, North side Veree road, East of Rising Sun avenue, $4,500. Architect, private plans. Owners, E. Hopkinson & Co., 3029 North Eighth street, Philadelphia. Frame, 2 stories, 20x32 feet, shingle roof, oak and yellow pine floors, electric light. Owner will build.

Hospital (add.), 239-41 North Eighteenth street, Philadelphia, $4,000. Architect, private plans. Owner, Dr. J. W. Kenndy, 243 North Eighteenth street, Philadelphia. Brick, 3 stories, 29x14 feet, slag roof, yellow pine floors, hot water heat, electric light. Owner will build.

Residence, 4467 Edgemont street, Philadelphia, $3,500. Architect, private plans. Owner, I. E. Marceniak, 2724 Bridge street, Philadelphia. Brick, 2 stories, 18 feet 4 inches x 38 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence, North side Noffnagle street, East of "E" street, $3,000. Architect, private plans. Owner, Walter M. Wihoff, 622 Benton street, Philadelphia. Frame, 3 stories, 16x40 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence (alts.), 5789 Hunter street, Philadelphia, $2,500. Architect, private plans. Owner, C. H. Hogentogher, 5791 Hunter street, Philadelphia. General fire repairs. Owner will build.

Residence and Store (add. and alts.), Southwest Corner Fifty-seventh and Arch streets, $2,000. Architect, private plans. Owner, Simon Kaplan, 243 South Sixty-second street, Philadelphia. Brick, 1 story, 16x23½ feet, slag roof, yellow pine floors, electric light. Owner will build.

Lodge Building, 238-40 North Fifty-second street. Architect, Arthur C. Behr, 1326 North Robinson street. Owners, Oriental Hall Association, Fifty-second and Brown streets. Brick, cut stone and steel, 2 stories, 45x80 feet, slag roof, cement floors, tile and mosaic work, Bond, iron work, ornamental terra cotta. Owners taking bids. Warren Brothers, 1113 Cherry street, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Stores and Office Building, Seventh and Chestnut streets, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, name withheld. Brick, stone, steel and concrete, 6 stories. Plans about completed. Architects will take bids in a few days.

Home Building, Forty-fifth and Baltimore avenue, Philadelphia. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owners, Home of the Merciful Saviour for Crippled Children, premises. Stone, slate roof.

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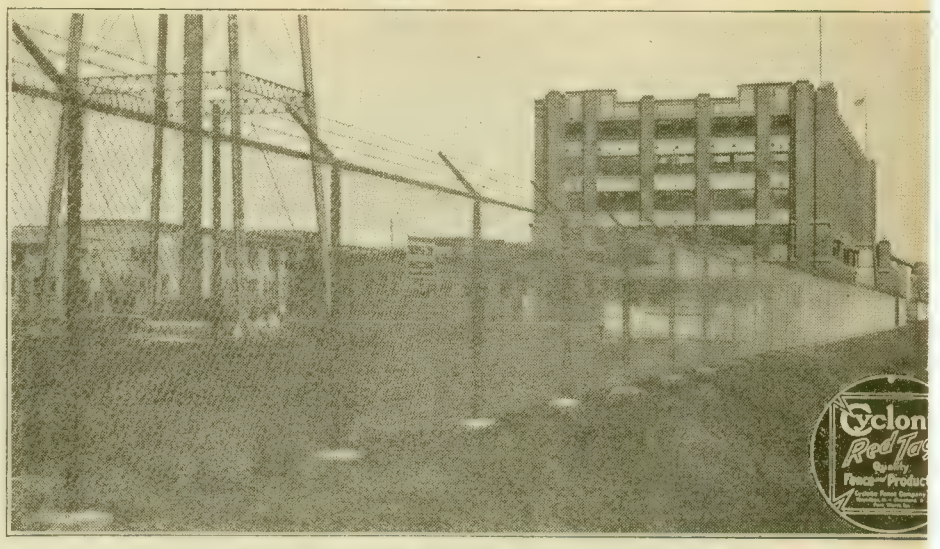
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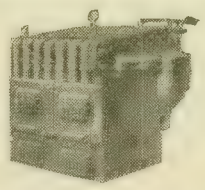
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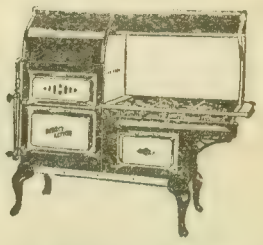
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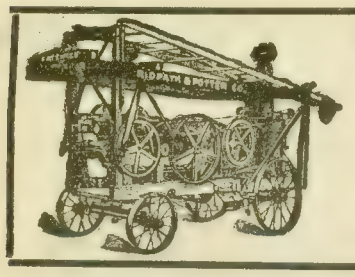


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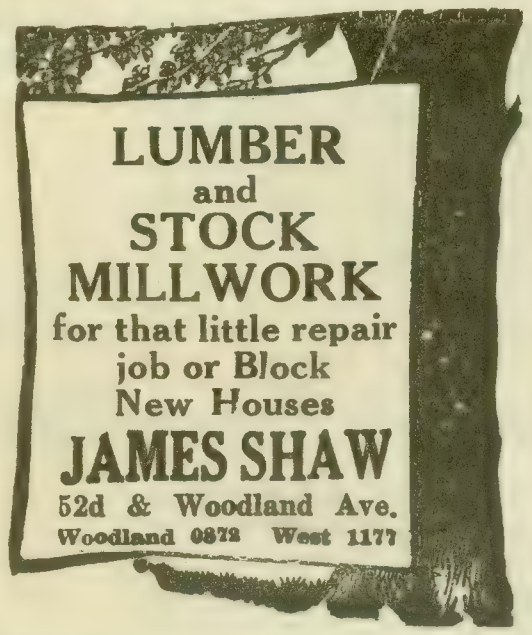
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Architects taking bids due March 23rd. H. E. Baton, 1713 Sansom street, is figuring.

Residences and Stores (5), East side Fifth street, North of Chew, $7,000 each. Architect, private plans. Owner, B. Zirochoff, 2411 South Tenth street, Philadelphia. Brick, 2 stories, 20x22 feet and 13x22½ feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Garages (11), 734 East Penn street, Philadelphia. Architect, private plans. Owner, Harry Bloom, on premises. Brick, 1 story, 10x16 feet, slag roof, cement floor, central heat, electric light. Owner taking bids due March 15th. Fred. Elvidge & Son, 5522 Germantown avenue, are figuring.

Isolation Ward Building, Germantown avenue and Sedgwick street. Architect, Philip H. Merz, Pennsylvania Building, Philadelphia. Owner, Lutheran Orphans' Home and Asylum, on premises. Brick and cut stone, 1½ stories, 53x32 feet, slate roof, cement composition and pine floors, metal lath, iron work, bond, tile and marble work, steam heat, electric light. Architect taking bids, due March 24th. Frank G. Stewart, 1619 Sansom street, is figuring.

Bank and Office Building (add.), Broad and Chestnut streets. Architects, Furness Evans & Co., 315 South Fifteenth street, Philadelphia. Owners, Girard Trust Co., Effingham B. Morris, President, on premises. Stone, concrete, steel and terra cotta. Plans in progress.

Building, Market street, east of Sixty-ninth street, Philadelphia. Architect, Le Roy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Edw. M. Cook & Edw. M. Cook, Jr., Upper Darby P. O. Brick, 2 stories, 70x50 feet, slag roof, pine floors, hollow tile, metal lath, dampproofing, iron work, steam heat, electric light, tile and marble work. Architect taking bids, due March 16th. Pierce Henon Co., Juniper and Pine streets, are figuring.

Residences (8) (alts.), Thirty-fourth and Walnut streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Changing residences to 8 stores and 40 apartments. Preliminary plans in progress.

Store and Residence (1) and Residences (26), Haines and Chew streets. Architect, E. Allen Wilson, 1206 Chestnut street, Philadelphia. Owner, Philip Robin, 2872 East Memphis street, Philadelphia. Brick, 2 stories, (1) 18x40 feet, (26) 16x32 feet, slate roof, hardwood floors, hot water heat, electric light. Owner will be ready for sub-bids in two weeks.

Residences (12), Chew and Haines streets, Germantown, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, James N. Mitchell, Forty-sixth and Market streets, Philadelphia. Brick, stone and stucco, 2½ stories, 16x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner is taking sub-bids.

Residences (6), Wynnefield, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. Kaplan, Sixtieth and Pine streets, Philadelphia. Brick, 2 stories, 18x58 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Garages, 1 story, 20x24 feet. Owner will be ready for sub-bids in one week.

Residences (16) (alts. and add.), Uber between Ludlow and Ranstead streets. Architect, Spencer Roberts, 10 South Eighteenth street. Owner, David Koons, Hotel Lorraine, Philadelphia. Brick, cut stone, carpentry, millwork, plastering, painting, glazing, slag roof (heat, light and plumbing reserved). Architect taking bids, due March 20th. T. C. Trafford, 1613 Sansom street; Wm. R. Dougherty, 1610 Sansom street; Frank G. Stewart, 1619 Sansom street; F. B. Davis & Son, 240 North Sixteenth street; Wm. R. Graham, 3110 Market street, and George C. Dougherty, 1725 Ludlow street, are figuring.

Ice Storage Building and Office, Willard and Emerald streets. Architect, private plans. Owners, American Ice Co., Sixth and Arch streets. Brick and steel, 1 story, 62x20 feet and 11x7 feet, Barrett roof, cement and maple floors, bond, iron work. Owners taking bids, due March 18th. John N. Gill & Co., Otis Building; Monaghan & Losse, Inc., 3016 Chestnut street, and P. Haibach Cont. Co., Twenty-sixth and Thompson streets, are figuring. Cork insulation.

Garage, Oak Lane (Sharpless avenue). Architect, private plans. Owner, Alan S. Goodman, Sharpless avenue, Oak Lane. Brick and stone, 1 story. Owner taking bids, due March 17th. Kober Const. Co., 34 South Seventeenth street, is figuring.

Parochial School, Wanamaker street, between Media and Lansdowne avenue. Architects, Mitchell & Clark, associated, 23 South Sixteenth street. Owners, St. Rose of Lima's R. C. Church, on premises. Causbey Eng. Co., Victory Building, taking bids on electric work, due March 16th.

Residences (24), Sydenham street, south of Fisher's avenue, $120,000. Architect, private plans. Owner, Samuel J. Kennedy, 3105 F street. Brick, 2 stories, 15x40 feet and 15x30 feet, 11½x10 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Twin Residences, Carpenter street, Germantown. Architect, private plans. Owner, Richard Insinger, care of builder. Hollow tile and stone, 2½ stories, 38x40 feet, Johns Manville roof, oak and pine floors, hollow tile, hot water heat, electric lighting. Samuel Harting, 20 East Johnson street, taking sub-bids, due March 20th.

Church, Parsonage and Sunday School (alts. and add.), Oak Lane, Pa. Architects, Thomas, Martin & Kirkpatrick, 130 South Fifteenth street. Owners, St. Martin's P. E. Church, Oak Lane, Philadelphia. Stone, 2 stories, 33x24 feet and 30x28 feet, slate roof, maple floors, hot water heat, electric lighting. Architect taking bids, due March 20th at noon. E. Allen Reeves, Abington, Pa.; A. E. Martin, Willow Grove avenue, Chestnut Hill; Frank E. Wallace, 1220 Chancellor street; George B. Bond, Thirteenth street and Sixty-sixth avenue, Oak Lane, are figuring.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bank and Office Building, 1607 Walnut street, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building. Owners, Peace & Cullen, care of architects. Brick, cut stone and steel, 2 stories and mezzanine, 50x117 feet, slag roof, pine floors, iron stairs, Bond, copper skylights, tile, marble and terrazzo, demolition (plumbing, elevator, electric work and heating reserved). Contract awarded to Pierce Henon Co., Juniper and Pine streets.

Garage, West side Broad street, North of Wyoming avenue, $22,300. Architect, J. S. Fuller, 1537 Chestnut street, Philadelphia. Owners, Sol and Harry Faggan, 1118 Chestnut street, Philadelphia. Brick, 1 story, 60x177 feet, slag roof, cement and maple floors, steam heat, electric light, rolled steel sash, marble work. Contract awarded to Samuel Nemez, 5913 Vine street, Philadelphia.

Residence, Grant avenue, West of Frankford avenue, $16,000. Architect, private plans. Owner, Annie Shrenk, 1107 Columbia avenue, Philadelphia. Stone, 2 stories, 28x52 feet, slate roof, oak and yellow pine floors, hot air heat, electric light. Contract awarded to Rush Brothers, 1006 Harrison street, Philadelphia.

Post Office (add.), 3247-49 Kensington avenue, $10,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, T. O. Mortimer, Kensington and Allegheny avenues, Philadelphia. Brick, 1 story add., 19 feet 4 inches x 96 feet, second story add., 19x34 feet, slag roof, yellow pine floors, steam heat, electric light. Contract awarded to John Mortimer, 3377 Emerald street, Philadelphia.

Residence, 743 North Twenty-fifth street, Philadelphia, $7,500. Architect, private plans. Owner, Peter Magee, 745 North Twenty-sixth street, Philadelphia. Brick, 3 stories, 15x40 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to Charles Jones, 5130 Warren street, Philadelphia.

Residences (2), 5646-48 North Fifth street, Philadelphia, $6,000 total. Architect, private plans. Owner, Michael L. Pollock, 4832 North Marvine street, Philadelphia. Brick, 2 stories, 16x28 feet, 13x27 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Joseph Friedman, 4831 North Twelfth street, Philadelphia.

Residence, West side Wakeling street, North of Horrocks street, $15,000. Architect, private plans. Owner, F. W. Hollingsworth, 5029 Penn street, Philadelphia. Brick, 3 stories, 28x36 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to E. W. Taylor, Oxford and Wakeling streets.

Garage, 621-623 Reed street, Philadelphia, $10,000. Architect, private plans. Owner, Eliza Buckley, 1332 Ritner street, Philadelphia. Brick, 3 stories, 40x113 feet, slag roof, cement floors, electric light, steam heat. Contract awarded to Coffman & Heister, 133 South Fifty-third street, Philadelphia.

Manufacturing Building, 918 South Fifth street, Philadelphia, $12,000. Architect, private plans. Owner, Dora Wolf, 752 South Third street, Philadelphia. Brick, 2 stories, 21x100 feet, slag roof, yellow pine floors, steam heat. Contract awarded to Morris Yacknitz, 1202 North Seventh street, Philadelphia.

Garage, Southeast Corner D and Ontario streets, $8,000. Architect, private plans. Owner, William Landis, 3428 Jasper street, Philadelphia. Brick, 1 story, 69x80 feet and 32x51 feet, slag roof, cement floors. Contract awarded to G. L. & J. W. Callahan, 542 East Hawthorne street.

Residence and Store (alts. and add.), 333 North Fifty-second street, $6,800. Architect, private plans. Owner, Samuel Resnick, on premises. Brick, 2 stories, 20x20 feet, slag roof, pine floors, electric light. Contract awarded to Cochwell & Hagan, 2242 St. James street.

Pumping Station, Lower Roxborough, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Water, Frank H. Caven, Director, 216 City Hall. Brick, 1 story, 61x33 feet, slag roof, concrete floors, Bond. Contract awarded to Kober Const. Co., 34 South Seventeenth street, $15,109.

Garage, 2025-27-29 Brown street, $5,122. Architect, private plans. Owner, Miss Jane McHugh, 2031 Brown street, Philadelphia. Brick, 1 story, 44x52 feet, slag roof, cement floors, electric light. Contract awarded to Farrell-Robb Const. Co., 122 Diamond street.

Office and Store, 5532 North Fifth street, Philadelphia, $5,630. Architect, Frisby Smith, 1345 Arch street, Philadelphia. Owner, John Budler, 2940 North Fifth street, Philadelphia. Brick, steel, 2 stories, 13x56 feet, slag roof, yellow pine floors, hot water heat, electric light, metal ceiling, metal lath. Contract awarded to G. N. Tatro, 1345 Arch street, Philadelphia.

Residence and Store, Northeast Corner Pierce and Hulseman streets, $4,500. Architect, private plans. Owner, J. Macknoice, Hulseman street, West of Twenty-first street, Philadelphia. Brick, 2 stories, 17x24 feet and 16x20 feet, slag roof, oak and yellow pine floors, hot air heat, electric light. Contract awarded to Julius Ostroff, 310 Porter street, Philadelphia.

Residence and Store (add.), Southeast Corner Wayne avenue and Carpenter street, $3,600. Architect, private plans. Owner, R. Kadwill, on premises. Brick, 1 story, 26x52 feet, slag roof, yellow pine floors. Contract awarded to B. W. Glover, 3320 Fairmount avenue, Philadelphia.

Residence, Passmore street, East of Oakley street, $5,800. Architect, private plans. Owner, G. Sanderson, Fox Chase, Philadelphia. Frame and stucco, 3 stories, 16x34 feet, shingle roof, oak and yellow pine floors, hot air heat, electric light. Contract awarded to Clarence C. Campbell, 6419 Bingham street.

Residence and Store (alts. and add.), Southwest Corner Twenty-eighth and Dauphin streets, $4,000. Architect, private plans. Owner, Moses Abowitz, on premises. Brick, 2 stories, 16x28 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Charles Schnitzer, 2513 North Thirty-first street, Philadelphia.

Residences (2), Sanger street, East of Hasbrook street, $11,000. Architect, private plans. Owner, Mrs. Anna Davelen, Fauntler street, North of Bleigh. Brick, 2 stories, 16x42 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Con-

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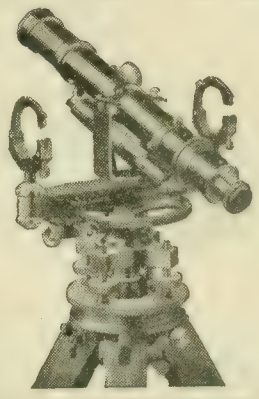
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tract awarded to Neveling Brothers & Carver, 121 Sylvania avenue, Rockledge, Philadelphia.

Garage, 5015 Haverford avenue, Philadelphia, $6,400. Architect, private plans. Owner, Mrs. Elizabeth Martin, on premises. Brick, 1 story, 50x64 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to William E. Hale, 1636 Ludlow street, Philadelphia.

Apartment (alts. and add.), 5200 North Eleventh street, $7,500. Architect, private plans. Owner, Helen B. Schultzbach, 721 Walnut street, Philadelphia. Brick and steel, 4 stories, 30 feet 4 inches x 14 feet 3 inches, slag roof, hot water heat, electric light, oak and yellow pine floors, metal lath, tile work. Contract awarded to H. L. Buxton, 2216 North Fifteenth street, Philadelphia.

Garage and Receiving Station, Gaul and Norris streets, $3,000. Architect, private plans. Owner, M. Kline, on premises. Stone, brick, mill work, reinforcing, steel, painting, glazing, slag roof. Contract awarded to Albert Dunlap, 7223 Oak avenue, Oak Lane.

Ice Plant, Front and Luray streets, Philadelphia, $20,000. Architect, J. Emil Bullock, 34 South Seventeenth street, Philadelphia. Owners, Northeastern Ice Mfg. Co., on premises. Brick and steel, 1 story, 115x72 feet and 105x43 feet, slag roof, concrete floors, rolled steel sash, refrigerator doors, iron work. Contract awarded to E. R. Hall, 34 South Seventeenth street.

Building (add.), Butler street, East of Sepviva street, $4,000. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, Belmont Packing & Rubber Co., on premises. Brick, second story add., 32x75 feet, slag roof, yellow pine floors. Contract awarded to George W. Crossley, 2264 Bridge street, Philadelphia.

Office, 5503 North American street, Philadelphia, $3,500. Architect, private plans. Owner, George N. Pierce, on premises. Brick, 1 story, 16 feet 10 inches x 72 feet, slag roof, yellow pine floors, hot water heating, electric lighting. Contract awarded to Supper & Foster, 5619 North Second street, Philadelphia.

Moving Picture Theatre (alts.), Tacony and Orthodox streets, $4,500. Architect, private plans. Owner, J. Zbybruroski, on premises. General interior alterations. Contract awarded to John H. Rachie, 3400 Devereaux street, Philadelphia.

Building (add.), 3136 Frankford avenue, Philadelphia, $2,500. Architect, private plans. Owner, J. G. Fuller, 1834 East Airdrie street, Philadelphia. Brick, 2 stories, 18x30 feet, slag roof, oak and yellow pine floors. Contract awarded to A. E. Bainer & Co., 2044 East Clementine street.

Residence and Store (alts.), 3900-02 North Fifth street, $2,350. Architect, private plans. Owner, A. Schwarzman, on premises. General interior alterations. Contract awarded to Louis Swerdloff, 228 South Fifty-ninth street, Philadelphia.

Shop (add.), 2129 Cherry street, Philadelphia, $2,300. Architect, private plans. Owner, J. Irwin, 133 North Twenty-second street, Philadelphia. Brick, 1 story, 18x12 feet and 3x14 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Edward Cunningham, 206 North Twenty-second street, Philadelphia.

Garage, West side Wise's Mill road, North of Shawmont avenue, $2,000. Architect, Emil Schmidt, 1520 Spruce street, Philadelphia. Owner, Thomas E. Mitten, on premises. Hollow tile and stucco, 1 story, 22x22½ feet, shisngle roof, cement floors, hot water heat, electric light. Contract awarded to Frank E. Wallace, 1220 Chancellor street.

Residence (add. and alts.), Wise's Mill road, North of Shawmont avenue, $4,000. Architect, Emil C. Schmidt, 1520 Spruce street, Philadelphia. Owner, Thomas E. Mitten, on premises. Hollow tile and stucco, 3 stories, 22x12 feet, shingle roof, hot water heat, electric light, tile work. Contract awarded to Frank E. Wallace, 1220 Chancellor street, Philadelphia.

Garage (add. and alts.), 1306 Waverly street, Philadelphia, $2,000. Architect, private plans. Owner, J. H. Holley, Northeast Corner Fifth and Arch streets, Philadelphia. Brick, 1 story, 10x15½ feet, slag roof, electric lighting. Contract awarded to A. Raymond Raff Co., 1635 Thompson street.

Store, 4801 North Twelfth street, Philadelphia, $2,000. Architect, private plans. Owner, H. Benner, on premises. Brick, 1 story, 26x20 feet, slag roof, yellow pine floors. Contract awarded to H. Brogin, 3822 Brown street, Philadelphia.

Grading and Improvements, City of Philadelphia. Owners, Department of Public Works, Frank H. Caven, Director, 216 City Hall, Philadelphia. Grading and improving Bensalem avenue, Byberry road to Grant avenue. Contract awarded to Connor & Ley, 3621 North Fifth street, $258,502.50.

Branch Sewer, Holme avenue, between Holme Circle and Willits road. Contract awarded to Fred. T. Buckius, Jr., Kensington avenue and Deal street, $4,999.

Contry Road Improvement, Levick street, Tacony street to Delaware avenue. Contract awarded to Curtis Brothers, Tacony, Philadelphia, $6,861.

Country Road Improvement, Ninth street, Sixty-fifth to Sixty-sixth avenue, and Sixty-fifth avenue, Eighth to Ninth streets. Contract awarded to United Paving Co., Real Estate Trust Building, Philadelphia, $5,435.86.

Parochial School, Wanamaker, between Lansdowne avenue and Media street, Philadelphia, $120,000. Architects, associate, Charles J. Mitchell and J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owners, St. Rose of Lima's Roman Catholic Church, care of Rev. J. M. Bourne, 1535 North Fifty-ninth street, Philadelphia. Stone and steel, 3 stories, 128x62 feet, slate roof, pine floors, steam heat, electric lighting, plumbing. Contract awarded to M. Melody & Son, 1322 Race street, Philadelphia.

Residence (alts.), 4853 Parkside avenue, Wynnefield, Philadelphia, $15,000. Architect, private plans. Owner, A. L. Jawers, on premises. General interior alterations, general renovation, hot water heat, electric lighting, tile, marble work, hardwood floors, carpentry, mill work, painting, glazing. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

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Printing Plant, Seventh and Sansom streets, Philadelphia. Engineers, F. C. Roberts & Co., Real Estate Trust Building, Philadelphia. Owners, Public Ledger Co., South Independence Square, Philadelphia. Steel, brick and reinforced concrete, 3 stories, 210x150 feet, slag roof, concrete floors, steam heat, electric lighting. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Residence (alts.), 1632 Spruce street, Philadelphia, $1,500. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. General alterations, painting, glazing, carpentry, mill work. Contract awarded to George Wagner, 274 South Twentieth street.

Garage, 704-06 Poplar street, Philadelphia, $7,000. Architect, Herman Kline, 1618 South Fourth street, Philadelphia. Owner, Max B. Willig, Lincoln Building, Philadelphia. Brick, 1 story, 60x100 feet, slag roof, cement floors, steel sash, steam heat, electric light. Contract awarded to Fred. Sbroglia, 1813 South Broad street, Philadelphia.

Residence (add.), 533 West Hortter street, $2,557. Architect, private plans. Owner, Robert Crane, on premises. Brick, 1 story, 25x16 feet, slag roof, yellow pine floors. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

Residence and Store (add. and alts.), 1300 West Allegheny avenue, $2,600. Architect, private plans. Owner, H. E. Maberry, 1301 Girard avenue, Philadelphia. Brick, 1 story, 10x8 feet, slag roof, yellow pine floors. Contract awarded to J. R. Butler, 1502 Mt. Vernon street, Philadelphia.

Residence and Store (add. and alts.), 5901 Girard avenue, $3,000. Architect, private plans. Owner, H. G. Seedenberg, on premises. Brick, 1 story, 6x28 feet, slag roof, pine floors, hot air heat. Contract awarded to J. R. Butler, 1502 Mt. Vernon street, Philadelphia.

Residences (4), Eleventh street, South of Sixty-fifth avenue, $7,000 each. Architect, private plans. Owner, Lyle H. Rickards, 4801 York road, Philadelphia. Brick, 3 stories, 20x35 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Herman British, 5521 North Seventh street, Philadelphia.

Junior High School, Twenty-fourth and Snyder avenues, Philadelphia, $566,870. Architect, private plans. Owner, Board of Education, J. D. Cassell, Nineteenth above Chestnut street. Contract awarded to M. Melody & Son, 1322 Race street. Plumbing to Walter & Purks & Mellon, Forty-first and Ludlow streets, $48,743. Heating to Chas. Monday & Son, 1318 Olive street, $18,752. Electric work to J. F. Buchanan Co., 1719 Chestnut st., $28,321. Cabinet work, Fred Gerry, 1835 Market street, $13,500. Ventilating, Chas. Callahan, 42 N. 2nd street, $3,750.

Residence, Overbrook, Philadelphia. Architect, Wallace & Warner, 1012 Walnut street, Philadelphia. Owners, R. C. Hassrick, Land Title Building. Brick and stucco, 2½ stories, 25x46 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Contract awarded to Wm. D. Smedley, Narberth, Pa.

Storm Enclosure, Wissahickon avenue and Upsal street. Architect, Frank Seeburger, 1524 Chestnut street. Owner, name withheld. Carpentry, millwork, painting, glazing. Contract awarded to Wm. J. Gruhler Co., 219 High street.

Stores and Apartments, Twenty-seventh and Girard Avenue, $22,500. Architect, E. L. Rothschild, 1420 Chestnut street. Owner, Jos. Katzman, on premises. Brick and reinforced concrete, 3 stories, 18x77 feet, slag roof, composition and hardwood floors, metal lath and ceilings, iron work, tile and marble

work, hot water heat, electric light. Contract awarded to Philip Haibach Contracting Co., 26th and Thompson streets.

Store and Hall, 5709-11 Germantown Avenue, Philadelphia, $20,000. Architect, private plans. Owner, J. Dehon, Southeast corner Seventeenth and Fairmount Avenue, Philadelphia. Brick and steel, 2 stories, 29x116½ feet, slag roof, pine floors, steam heat, electric light, metal lath, metal ceiling tile work. Contract awarded to P. Haibach Cont. Co., 1261 North Twenty-sixth street.

Residences, (4) North side Disston street, west of Walker street, $5,000 each. Architect, J. H. Rachey, 3400 Devereaux street, Philadelphia. Owner, Hugh McHenry, 6931 Torresdale Avenue, Philadelphia. Brick, 2 stories, 16x47 feet, slate and slag roof, hot water heat, electric light, oak and pine floors, tile work. Contract awarded to John G. Stevenson, 7014 Hegerman street, Philadelphia.

Fire Repairs, North side of Market, east of 63rd street, $3,000. Architect, private plans. Owner, Adolph L. Tenfel, 6237 Market street, Philadelphia. Carpentry, millwork, painting, glazing. Contract awarded to Frank N. Percival, 6229 Market street, Philadelphia.

Building (add. and alts.), 1817 Christian street, $2,850. Architect, private plans. Owner, R. L. Chickester, 1420 Curtin street, Philadelphia. Brick, 3 stories, 10x18 feet, slag roof, oak and yellow pine floors, electric lighting. Contract awarded to E. D. Turner, Bryn Mawr, Pa.

Residence (2 family) and Store, (alts.) 6239 Market street, $2,250. Architect, private plans. Owner, K. A. Nouskhajian, 6213 Osage Avenue, Philadelphia. General fire repairs. Contract awarded to Penn Contracting Co. 149 S. 60th street.

Residence and Store, (alts.), Southwest corner Ninth and Hall streets, $2,150. Architect, Private Plans. Owner, Miss Catharine Grumbo, Northeast corner Eleventh and Christian streets. General interior alterations. Contract awarded to Cerasoli & Scarci, 1709 South Eleventh street.

PENNSYLVANIA Construction News

Church, Parish House and Sunday School, Emaus, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, St. John's Lutheran Church, Rev. J. S. Savacorl, Emaus, Pa. Stone or brick. Too early for details.

Church and Parsonage, Lebanon, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Holy Trinity Lutheran Church, Rev. C. E. Keim, Lebanon, Pa. Stone, 1 story and basement and 2 stories and basement. Too early for details.

Residence (alts.), 901 Schuylkill street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, W. T. Snyder, on premises. Partitions, stair tower. Plans in progress.

Residence, West Leesport, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Dr. William J. Baslerr, West Leesport, Pa. Brick, 2½ stories, 28x28 feet, slate roof, pine floors, electric light. Plans in progress.

Residence, Cynwyd, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 60x30 feet, slate roof, hardwood floors, hot water heat, electric lighting. Plans in progress.

Bank and Post Office Building, Ninth and Main streets, Darby, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, First National Bank, J. S. Verlinden, President, Darby, Pa. Stone and brick, 1 story, 40x165 feet. Plans in progress.

Buildings (2) (alts. and add.), Chambersburg, Pa., $30,000. Architects, Charles L. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Wilson College, Chambersburg, Pa. Stone, 2 stories. Plans in progress. Will be ready for bids in two weeks.

Residence, Minersville, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owner, Dr. Quinn, Minersville, Pa. Terra cotta and brick, 2 stories, 25x90 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Architect will be ready for bids about March 18th.

Residence, Springfield, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, John Kellett, Sixtieth and Ellsworth streets, Philadelphia. Hollow tile and stucco, 2½ stories, 35x29 feet, slate roof, hot water heat, electric lighting. Plans about completed.

Residence, West Reading, Pa., $15,000. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, G. H. Rader, Reading Abattoir Co., Reading, Pa. Brick, 2½ stories, 30x46 feet, slate roof, hardwood floors, hot water heat, electric light. Architect taking bids due March 18th. D. H. Hunter, 824 North Eleventh street; Charles Schlegel, 2250 Perkiomen avenue; William Spatz, 36 North Sixth street; William Sharp, 22 North Fifth street; Beard Const. Co., 658 Penn street, and Adam Spatz, Reading, Pa., figuring.

Residence, Narberth, Pa. Architect, J. Bedford Wooley, 1627 Sansom street. Owner, Leroy A. King, Narberth, Pa. Stone, 2½ stories, 37x25 feet, shingle roof, oak and pine floors, metal lath, hot water heat, electric light, tile work, Bond, iron work. Architect taking bids due March 22nd. William R. Dougherty, 1610 Sansom street; Tourison & Tourison, 1310 Arch street; E. Allen Reeves, Abington, Pa.; Charles S. Jenkins, James McMackin and George Markle, all of Narberth, Pa.; C. C. Edelman, 1627 Sansom street, Philadelphia, and S. T. Atherholt, Narberth, Pa., figuring.

Farm House, Newtown Square, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, care of architect. Stone, 2½ stories, 30x40 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect will take bids in 3 weeks.

High School, Glen Nor, Pa. Architects, Clarence Brazer and R. Dickint, Crozer Building, Chester. Owners, Glen Nor School Board, S. Wright, Secretary, Norwood, Pa. Brick, 2 stories, 132x84 feet, slate roof, hardwood floors, electric light, metal lath (heating, plumbing and lighting reserved), concrete stairs. Plans in progress. Bids in about three weeks.

Dunwoody Home (Power House and Laundry, Landscape Grading and Sewage Disposal), Newtown Square, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, Dunwoody Home, care of architect. Fireproof construction, 3 stories, 280x30 feet and 26x40 feet, tile and hardwood floors, Vermont slate roof, steam heat, electric light, tile and terrazzo work, metal lath, hollow tile, elevators, rolled steel sash, fire doors, laundry and kitchen equipment, ornamental iron work. Architect will be ready for bids in one month.

Group of Farm Buildings, Providence road, Chester, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, Kingsley Montgomery, care of architect. Terra cotta, tile and stucco, 2½ stories, 26x53 feet, wing 20x40 feet, shingle roof, hardwood and concrete floors, vapor steam heat, electric light, tile work. Chester Const. & Cont. Co., Chester, Pa., taking sub-bids, due as soon as possible.

Twin Residence, Oak Lane, Pa. Architects, Young & Winter, 11 South Sixteenth street, Philadelphia. Owner, name withheld. Brick and stucco, 2½ stories, 28x50 feet, shingle roof, hardwood floors, hot water heat, electric lighting. Architects taking sub-bids.

Residence (8) pairs, Ardmore, Pa. Architect, private plans. Owner, name withheld. Brick or hollow tile, 2½ stories, 25x36 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Charles C. Pace, Merion, Pa., taking sub-bids as soon as possible.

Residence, Forrest avenue and School Lane, Drexel Hill, Pa. Architect, private plans. Owner, William J. Irwin, Fuller Building, Philadelphia. Stone and frame, 2 stories, 26x28 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work, cement work. M. L. Conneen, 10 South Eighteenth street, Philadelphia, taking sub-bids.

Stores and Apartments, Bala and Montgomery avenues, Cynwyd, Pa. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, John R. K. Scott, Lincoln Building, Philadelphia. Brick, cut stone, 3 stories and basement, 139x70 feet, 49x36 feet and 57x40 feet, oak and pine floors, slag roof, hollow tile, metal lath, waterproofing, terra cotta, iron work, Bond, tin lined and kalamein doors, hollow metal sash and skylights (tile work, plumbing, heating and electric work reserved). Architect taking bids due March 17th. A. L. Fretz & Son, Heed Building, taking sub-bids.

School, Lost Creek, Pa. Architect, G. C. Freeman 24 North Sixth street, Reading, Pa. Owner, Rev. W. T. Kelley, Lost Creek, Pa. Frame and steel, 1 story, 8 rooms, shingle roof, pine floors, electric lighting, skylights, roof ventilators. Architect taking sub-bids.

Residence, Cynwyd, Pa. Architect, H. G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, Horace P. Liversidge, Bala, Pa. Stone, 2½ stories, 52x27 feet, wing 18x27 feet, tile or slate roof, oak and pine floors, stone foundations, plumbing, heating, electric work, tile and marble work, Bond, iron work. Architect taking bids due as soon as possible. Charles C. Pace, Merion, Pa.; P. J. Lawler, Upper Darby P. O., Pa.; Charles Gilpin, Harrison Building; Henderson & James, 105 S. Fifty-second street, and A. L. Fretz & Son, Heed Building, are figuring.

Residence, Wynnewood, Pa. Architect, Thomas B. Lippincott, 11 South Sixteenth street. Owner, Mrs. J. C. Brown, care of architect. Frame, 2½ stories, 34x41 feet, shingle roof, oak and pine floors, electric light, tile and marble work, Bond, iron work. Architect taking bids due March 17th. William J. Ryder, 1716 Sansom street; Don Peters, 315 Pelham road; Tourison & Tourison, 1310 Arch street; Charles C. Pace, Merion, Pa., and Turnbull & Cornell, 20 South Eighteenth street, are figuring.

Mill Building, Pottstown, Pa. Architect, J. Vincent Poley, 162 Second street, Royersford, Pa. Owners, Eleta Knitting Mills, Inc., A. A. Murray, manager, Main street, Royersford, Pa. Brick, 3 stories, 38x82 feet, composition roof, concrete and maple floors, (1) elevator, floor hardener, fire doors, fire tower (heating, electric work and plumbing reserved). Architect taking bids due as soon as possible. F. H. Kaiser & Co., Pottstown, Pa.; F. Hutt, Pottstown, Pa.; W. A. Becker, Royersford, Pa.; Beling & Bush Co., Drexel Building, are figuring.

Silk Throwing Plant, Bethlehem, Pa. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, R. K. Laros Silk Co., R. K. Laros, President, Bethlehem, Pa. Brick and steel, 3 stories, 60x240 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash and skylights, fire doors, elevators, waterproofing. Plans in progress.

Residence, Brookline, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Charles Lindgren, Merion, Pa. Stone, hollow tile and stucco, 2½ stories, 26x61 feet, slate roof, hardwood and pine floors, hot water heat, electric lighting. Preliminary plans in progress.

School, St. Clair, Pa., $75,000. Architect, Frank X. Reilly, Pottsville, Pa. Owners, St. Clair School District, St. Clair, Pa. Brick, 2 stories, 80x115 feet, slag roof, wood and asphalt floors, metal lath, rolled steel sash, roof ventilators, skylights, metal weather strips, Bond, iron stairs (heating, electric work and plumbing reserved). Owners taking bids due March 22nd.

Apartment, Evergreen street, Harrisburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owner, C. L. Conover, 111 Evergreen street, Harrisburg, Pa. Brick, 3 stories, 40x56 feet, composition roof, hardwood floors, vapor heat, electric light, tile work. Architect taking bids, due March 21st. N. S. Badorf, 1831 Berryhill street, and J. W. Pomraning, Kunkel Building, Harrisburg, Pa., are figuring.

Residences (3), Lancaster, Pa. Architect, F. J. Everts, 124 East King street, Lancaster, Pa. Owner, J. C. Coyle, Lancaster, Pa. Frame, 3 stories, 13x32 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Architect taking bids, due as soon as possible. B. F. Bachman, Woolworth Building; L. V. Wright, 9 South Duke street; Andrew Bowman, Lancaster, and John G. Aierstuck & Son, 428 West Lemon street, Lancaster, Pa., are figuring.

Apartment (alts. and add.), Walnut street, Lancaster, Pa. Architect, J. B. Harmon, 48 N. Queen street, Lancaster, Pa. Owner, Manuel J. Eby, Lancaster, Pa. Brick, 3 stories, irregular size, hardwood floors, electric light, tile work. Owner taking bids, due as soon as possible. H. Wohlsen, Woolworth Building; F. Bouchman and R. Cloud, all of Lancaster, figuring.

Residence (alts.), 156 North Queen street, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, P. Trainter & J. Manos, on premises. Cabinet work, vitrolite glass, plate glass. Owner taking bids. B. F. Bachman, Woolworth Building, and V. J. Hienmenz, 26 Green street, Lancaster, Pa., are figuring.

Residence, Ephrata, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Levi Eilnier, 38 North Main street, Ephrata, Pa. Brick, 2½ stories, 24x34 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for sub-bids.

Apartments (6), Carlisle, Pa. Architect, R. E. Starr, Spooner Building, Harrisburg, Pa. Owner, R. R. Todd, South and Pitt streets, Carlisle, Pa. Brick, 2 stories, 50x50 feet, slate roof, pine floors, Warren Webster roof, electric light, tile work, iron stairs. Owner ready for bids.

Bank, Enola, Pa., $25,000. Architects, Lawrie & Lappley, Second and Locust streets, Harrisburg, Pa. Owners, Enole State Bank, Dr. Holmes, Enola, Pa. Brick, 2 stories, 35x70 feet, slag roof, tile floors, vapor heat, electric light, hollow tile, metal lath, roof ventilators, metal window guards, bank fixtures, vault equipment, ornamental iron work. Architects will be ready for bids March 18th.

Bank, Lititz, Pa. Architect, C. M. Urban, Woolworth Building, Lancaster, Pa. Owners, Lititz National Bank, G. Grabell, President, Lititz, Pa. Granite, 1 story, 30x62 feet, flat roof, tile floors, hot water heat, electric light, marble work, skylights. Architect will take bids.

School, Walnut street, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Sacred Heart R. C. Church, Rev. J. M. Steffy, Lancaster, Pa. Brick, 2 stories, 52x93 feet, slate roof, pine floors, steam heat, electric light, tile work, metal lath. Owners ready for bids.

Residences (2), Columbia Pike, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, W. C. Brecht, 20 North Queen street, Lancaster, Pa. Brick, 2½ stories, 22x28 feet, slate roof, hardwood floors, hot air heat, electric light. Owner will take bids this week.

Residence, Buchanan avenue., Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, L. K. Knight, Imperial Building, Lancaster, Pa. Brick, stucco, cinder concrete block, 2½ stories, 33x45 feet, slate roof, stone foundations, hardwood floors. Owner ready for bids.

Residence, Lancaster, Pa. Architect, J. B. Harmen, 47 North Queen street, Lancaster, Pa. Owner, H. J. Hiemenz, 43 North Prince street, Lancaster, Pa. Brick, 2½ stories, 26x30 feet, slate roof, hardwood floors, hot air heat, electric light. Architect and owner will take bids.

Residences (4 pairs), Brookline, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick, frame and stucco, 2 stories, 32x40 feet, slate roof, hardwood floors, hot water heat, electric lighting. Plans in progress.

Hotel, (alts.), Sunbury, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Neff & Ness, Sunbury, Pa. Brick, general alterations. Too early for details.

Residence, Riverside Drive, Harrisburg, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, Dr. G. H. Ashley, Parkway Apartments, Harrisburg, Pa. Brick, stucco, 2 stories, 35x35 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Residence, Third street, Harrisburg, Pa. Architect, R. E. Starr, Spooner Building, Harrisburg, Pa. Owner, I. Marcus, 264 Herr street, Harrisburg, Pa. Brick, 3 stories, 20x57 feet, slag roof, pine floors, steam heat, electric light, tile work. Plans in progress.

Warehouse, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, Marshall-Smith Co., Inc., Lancaster, Pa. Brick, steel, 2 stories, 32x100 feet, slag roof, concrete and wood floors, steam heat, electric light, iron stairs. Plans in progress.

Residence, Front and Emerald streets, Harrisburg, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owner, W. L. Ferry, 37 N. 3rd street, Harrisburg, Pa. Stone, 2 stories, 25x60 feet and 25x30 feet, tile roof, hardwood and composition floors, vapor heat, electric light, tile work. Architect will be ready for bids this week.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Dr. Chas. Rebuch, 412 North Third street, Harrisburg, Pa. Brick, 2½ stories, 35x60 feet, slate roof, hardwood floors, steam heat electric light, tile and marble work. Architect will take bids this week.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Judge Hargest, 222 Market street, Harrisburg, Pa. Brick, 2½ stories, 31x80 feet and 18x25 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Architect ready for bids due March 23rd.

Pennsylvania Contracts Awarded

Parochial School, Phoenixville, Pa. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, St. Ann's R. C. Church, care of Rev. J. J. Wilso, Phoenixville. Brick, cut stone and steel, 2 stories and basement, 56x102 feet, slate roof, cement and pine floors, waterproofing, iron work, Bond, kalamein doors (heating, electric lighting and plumbing reserved). Contract awarded to John McShain, 1610 North street, Philadelphia.

Dormitory (alts.), West Chester, Pa. Architect, Walter F. Price, 129 South Fifth street, Philadelphia. Owners, Pennsylvania State Normal School, West Chester, Pa. New toilet rooms, composition floors, carpentry, plumbing. Contract awarded to Floyd Baldwin, West Chester, Pa. Plumbing awarded to George Palmer, West Chester, Pa.

Residences (2), 38 and 39, Cynwyd, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, name withheld. Frame and stucco, 2½ stories, 39x25 feet, 16x16 feet, and 39x22 feet, and 9x19 feet, slate roof, oak and pine floors, tile and iron work. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Apartments (add.), Bala, Pa. Architect, R. R. Neely, 2136 Pine street, Philadelphia. Owner, Mrs. Gladys E. Kendrick, 32 Conshohocken road, Bala. Brick, 3 stories, 12x20 feet and 17x30 feet, slag roof, hardwood floors (heating and electric work extensions). Contract awarded to K. G. Hickey, 1114 South Fifty-second street, Philadelphia.

Sales Warehouse, West Linden street, Scranton, Pa. Architects, John J. Howley and Arthur P. Coon, Associated, Scranton, Pa. Owners, Fairmont Creamery Co., 30 Lackawanna avenue, Scranton, Pa. Concrete, brick, fireproof, 2 stories, 60x70 feet and 40x70 feet, slag roof, concrete floors, steam heat, electric light, freight elevator, wood blocks, iron stairs. Contract awarded to Ludwig T. Stipp, Scranton, Pa.

Office Building (add.), Glenside, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, William T. B. Roberts, Glenside, Pa. Stone, 2 stories, tile roof, steam heat, electric light, copper work, tile work, plumbing. Contract awarded to M. E. Hauser, Glenside, Pa.

Store and Office, Edgemont and Sproul streets, Chester, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, William I. Schaffer, care of architect. Brick, 2 stories, 30x35 feet, slate and tin roof, pine floors, steam heat, electric light, plate glass. Contract awarded to William Provost, Jr., 1216 Walnut street, Chester.

Residence, Roslyn, Pa. Architect, Robert C. Winter, 11 South Sixteenth street. Owner, Thomas P. Houpt, Roslyn, Pa. Frame, 2½ stories, 25x30 feet, shingle roof, hardwood floors, hot water heat, electric lighting. Contract awarded to Hillthorpe Const. Co., Roslyn, Pa.

Church, Emaus, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, St. John's Reformed Church, Rev. D. E. Schaeffer, Emaus, Pa. Stone, 1 story and gallery, 42x86 feet, concrete foundations, slate roof, maple floors, vapor heating, electric light, metal lath, skylights. Contract awarded to A. P. Houser, Emaus, Pa.

Warehouse (add.), North George street, York, Pa. Architects, Gimmell & Biflmeyer, Rossmiller Building, York, Pa. Owner, L. M. Hartman, Philadelphia and Drake streets, York, Pa. Brick, 2 stories, 50x130 feet, slag roof, maple floors, electric lighting, heating extension. Contract awarded to Smith-Hodgson Co., York, Pa.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Capitol Building, Harrrisburg, Pa.

Clearfield County, Appli. 1787, Curwensville Borough, $65,320.85. Contract awarded to Lynn A. Brua, Jr., Hollidaysburg, Pa.

Clearfield County, Appli. 1787, Knox Township, $146,954.40. Contract awarded to Burd Const. Co., Cresson, Pa.

Clearfield County, Appli. 1435, Osceola Mills Borough, $27,304.50. Contract awarded to Gifford & Pritchard, Phillipsburg, Pa.

Clearfield County, Appli. 1774, Sandy Township, $52,112.50. Contract awarded to W. C. Guncheon & Co., Smethport, Pa.

Bradford County, A-1303, Athens Township. Contract awarded to Horn & Devling, Galeton, Pa. $80,329.85.

Bradford County, A-1246, Smithfield and Ulster Townships. Contract awarded to Horn & Devling, Galeton, Pa. $291,758.40.

Road Work, Pennsylvania. Owners, Department of Highways, Capitol Building, Harrisburg, Pa.

Bradford County, R-279, A-1248, Canton and Leroy Townships. Contract awarded to A. W. Hinaman, Akron, Ohio. $260,923.59.

Clearfield County, A-1787, Pike Township, $81,392.21. Contract awarded to Burnside Const. Co., Burnside, Pa.

Clearfield County, A-1776, Sandy Township, $164,663.85. Contract awarded to Matthews Brothers Const. Co., Pittsburgh, Pa.

Jefferson County, R-248, Rose and Eldred Townships and Brookville Borough, $138,-378.55. Contract awarded to Matthews Brothers Const. Co., Pittsburgh, Pa.

McKean County, R-10, Eldred Township and Borough, $150,973.20. Contract awarded to Peter B. Colgan, Eldred, Pa.

Stables, Twelfth and Chestnut streets, Chester, Pa. $7,000. Owners, Wm. Friehofer Baking Co., 20th and Indiana Avenues, Philadelphia. Brick, slow burning, 2 stories, 30x-87 feet, slag roof, pine floors, electric light, iron work. Contract awarded to P. Haibach Cont. Co. 26th and Thompson streets, Phila.

Store, (alts. and add.), 118 North Queen street, Lancaster, Pa. Architect, M. R. Evans, 10½ E. Orange street, Lancaster, Pa. Owner, B. F. Barr, on premises. Brick, 1 story, 30x47 feet, slag roof, electric light, tile work, pine floors. Contract awarded to Herman Wahlsen, Woolworth Building, Lancaster, Pa.

New Jersey Construction News

Residence, Morris Heights, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Robert G. Leavitt, care of architects. Brick. Too early for details.

School, Fairton, Cumberland County, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Fairfield Township, care of Paul Trenchard, Fairton, N. J. Brick, 1 story and basement, (5) rooms, slate roof, pine floors, steam heat, electric light, hollow tile, metal lath. Plans in progress.

State Hospital (add.), Trenton, N. J., $225,-000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of Warden Natchley, on premises. Steel, fireproof, 1 and 2 stories, irregular size, slate roof, composition and hardwood floors, hollow tile, metal lath, two freight elevators, electric light, tile and marble work, rolled steel sash and skylights, kalamein doors, roof ventilators. Plans in progress. Ready for bids in about two weeks.

Junior High School, Collingswood, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Board of Education, Collingswood, N. J. Preliminary plans in progress. Too early for details.

Hall and (5) Stores, Vineland, N. J. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Masonic Temple Association, Vineland, N. J. Stone, 3 stories. Plans about completed.

Passengers Station, Chelsea, N. J. Architect, private plans. Owners, Pennsylvania Railroad Company, Maintenance of Way, Broad street Station, Philadelphia. Brick, stone and steel. Plans in progress.

School, Dining Hall, Several Cottages, Boiler House and Pump House, Scudders Farm, near Trenton Junction, N. J. Architects, Gilbert & Betelle, Newark, N. J., and A. H. Moses, Camden, N. J. Owners, School for the Deaf, Commissioner of Education, State House, Trenton, N. J. Brick, cut stone and steel, 1 story, 170x51 feet, (2) wings, 80x50 feet and 51x59 feet, Cottages, 1½ stories, 93x32 feet, wing 33x44 feet, Boiler House, 1 story, 48x42 feet, Pump House, 1 story, 30x15 feet, slate and slag roof, cement and pine floors, metal lath, safety treads, metal window guards, water and dampproofing, kalamein doors, rolled steel sash and skylights, tile, marble and terrazzo work, steam heat, electric light. Owners taking bids due March 28th. Wills, Bill Co., 1706 Sansom street, and William Linker Co., 735 Cherry street, Philadelphia, figuring.

Residence, Haddonfield, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, J. W. Munger, Broadway, Camden, N. J. Owner, care of William B. Smith, 1941 Master street, Philadelphia, taking revised bids due March 16th. H. G. Campion, Otis Building, Philadelphia, is figuring.

Residence, Merchantville, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Alfred M. Elwell, Merchantville, N. J. Hollow tile, brick and stucco, 2½ stories, 40x40 feet, single roof, hardwood floors, hot water heat, electric light, tile work. Architects taking bids due March 18th. J. W. Draper, J. F. Bachmann and Lewis T. West ,all of Camden, N. J., and P. T. James, Merchantville, N. J., are figuring.

Residence, Dean street, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, F. W. Consolloy, 1218 West State street, Trenton, N. J. Hollow tile and stucco, 2½ stories, 36x26 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due March 18th. Edward La Rue, 53 South Hermitage avenue; W. Hicks, 1402 West State street, and Harris & Fisher, all of Trenton, N. J., are figuring.

Store and Office (add.), Montgomery and Hanover streets, Trenton. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Fitz Charles Dry Goods Co., on premises. Brick, 5 stories, 25x62 feet, slag roof, pine floors, electric light, tile, marble and terrazzo work, metal lath, hollow metal skylights, fire doors. Architect ready for bids due March 22nd. J. H. Morris & Son, Broad and Hudson streets; S. W. Mather & Son, Greenwood and Canal streets; Burton & Burton, American Mechanics' Bank Building; Jackson Brothers; Thomas Day, Brunswick and Southard, and Harris & Fisher, all of Trenton, N. J., are figuring.

Residence, Haddonfield, N. J., $12,000. Architect, L. M. Dorsey, Haddonfield, N. J. Owner, Dr. Percy Houseman, Haddonfield, N. J. Brick, 2½ stories, 36x28 feet, shingle roof, hardwood floors, hot water heat, electric light. Architect taking bids due March 20th. J. W. Draper, 436 Haddon avenue, Camden, N. J., figuring.

Stores (2), Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, N. A. K. Bugbee, 206 East Hanover street, Trenton, N. J. Brick, 1 story, 30x50 feet, slag roof, tile floors, hollow tile, hot water heat, electric light, plate glass, skylights, store fixtures. Owner will build.

School (add.), Maple Shade, Hamilton Township, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owners, Board of Education, W. A. Robinson, Greenwood street, Trenton. Brick, 2 stories, 6 rooms, 40x90 feet, slag roof, hollow tile, metal lath. Lowest bids submitted by: Burton & Burton, American Mechanics' Bank Building, Trenton, $50,599. Heating and plumbing, William G. Royer, 510 Stuyvesant street, Trenton, $12,810. Electrical work, Jackson Electric Co., Trenton, N. J., $2,395.40.

Cell Building, Lakehurst, N. J. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Lowest bidder: Charles Gilpin, Harrison Building, Philadelphia, $19,295.

New Jersey Contracts Awarded

Store and Apartments, Atlantic avenue, between Windsor and Richmond streets, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Charles Kline, Atlantic City, N. J. Brick, stone and steel, 3 stories and basement, 37x70 feet, slag roof, oak and pine floors, metal lath, plate glass, steam heat, electric light, tile and marble work. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Comfort Station, Montgomery avenue, Trenton, N. J., $30,000. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, City of Trenton, care of Mr. Fell, City Hall, Trenton, N. J. Indiana limestone, concrete and brick, 1 story, 14x60 feet, slag roof, tile floors, electric light, tile and marble work. Contract awarded to J. H. Morris & Co., Broad and Hudson streets, Trenton, N. J.

Factory, Muirheid avenue, Trenton, N. J., $9,000. Architect, private plans. Owners, Star Porcelain Co., Muirheid avenue, Trenton, N J.. Concrete, brick, 2 stories, 70x101 feet, slag roof, concrete and mill construction floors, electric light, rolled steel sash, metal lath. Contract awarded to Karno-Smith Co., Broad Street Bank Building, Trenton, N. J.

Residence, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, John McCann, care of architect. Frame, 2½ stories, 21x33 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Charles Randall, 43 North Hermitage avenue, Trenton, N. J.

Residences (2), 145-47 Barnt street, Trenton, N. J., $7,300. Architect, private plans. Owner, Mike Hratko, Trenton, N. J. Brick, 2 stories, 28x30 feet, slate roof, yellow pine floors, electric lighting. Contract awarded to N. Kudro, Trenton, N. J.

Residence, Greenwood avenue, Trenton, N. J., $5,000. Architect, private plans. Owner, Miller Margum, Trenton, N. J. Frame and shingle, 2½ stories, 22x28 feet, slate roof, pine floors, electric lighting. Contract awarded to William Ivins, Trenton, N. J.

Stable and Repair Shop, Camden, N. J., $10,000. Architect, private plans. Owners, Friehofer Baking Co., 20th and Indiana Ave. Brick, slow burning, 2 stories, 41x56 feet, and 1 story, 40x48 feet, slag roof, oak and pine floors, electric light, rolled steel sash, iron work. Contract awarded to P. Haibach Cont. Co., 26th and Thompson streets.

Proposals

INVITATION FOR PROPOSALS.

GENERAL ADVERTISEMENT ON THE CONSTRUCTION OF BUILDINGS FOR NEW JERSEY SCHOOL FOR THE DEAF

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct a School and Dining Hall combined—several cottages, Boiler House, and Pump House where shown on plot plan, on ground known as the Scudder Farm, near Trenton Junction, N. J., for the New Jersey School for the Deaf, will be received and opened by the Architects at the office of the Commissioner of Education, State House, Trenton, New Jersey, on March 28th, at eleven (11) o'clock A. M.

The work for which proposals are hereby invited covers the complete construction of the School Building and Dining Hall combined, and several cottages, the Boiler House and the Pump House, including water supply, eleteric work, heating and ventilating, and drainage, all ready for movable equipment.

Bids will be received for the work under five separate contracts as follows:

1. For general construction of entire group of buildings consisting of the School and Dining Hall building combined, the cottages, and the Boiler House.
2. For plumbing work for the entire group of buildings as above.
3. For the electrical work for the entire group of buildings as above.
4. For the heating work for the entire group of buildings as above.
5. For sewage disposal plant with Pump House complete.

The right is reserved to accept or reject any or all proposals. All bids must be in sealed envelopes endorsed "Proposal for New Jersey School for the Deaf," and stating the branch of work covered. No bid will be considered unless accompanied by a certified check to the order of the State of New Jersey, in the amount of five per cent. of the bid, or bid bond in like amount, binding the bidder to execute a contract if awarded to him. The terms of proposal with surety required are fixed by the specifications.

Copies of the drawings and specifications will be on file at the office of the architects for the purpose of estimating. A limited number of copies of the plans and specifications will be loaned to the prospective bidders on deposit of a certified check to their order in the sum of $50. These plans may be obtained by application to Arnold H. Moses, Architect, Temple Building, Camden, New Jersey. If plans and specifications are returned or before the submission of estimates the check will be returned, but should the plans and specifications be not returned, the deposit may become forfeited.

Guilbert & Betelle,
Arnold H. Moses,
Associated Architects.

Dated March 4, 1922.

Delaware Construction News

Apartment and Store, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick, terra cotta, 3 stories, 85x25 feet, tile roof, hardwood floors, hot water heat, electric light, hollow tile, metal lath, tile, marble and terrazzo work, roof ventilators, plate glass, metal weather strips, copper work, metal bulks, terra cotta, ornamental iron work. Plans in progress.

Bank (alts.), Third and Market streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Farmers' Bank, care of architect. Metal trim, revolving doors, marble work. Plans in progress.

Apartment and Store (alts. and add.), Wilmington, Del. Architect, J. McKibbin, Industrial Trust Building, Wilmington. Owner, Nathan Barsky, 904 West street, Wilmington. Brick, 1 story, composition roof, pine floors, plate glass, cement work, mill work, interior alterations, iron work. Architect ready for revised bids due March 20th. Charles H. Brice, 2801 Franklin street, Wilmington, Del.; J. E. Healy & Son, 707 Tatnall street; J. A. Bader & Co., Lackey Building; Charles J. Dougherty, 2515 West Eighteenth street; A. S. Reed & Bro. Co., 702 Orange street, all of Wilmington, Del., are figuring.

Delaware Contracts Awarded

Residence, Boulevard and Concord avenue, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick and stucco, 2½ stories, 25x41 feet and 25x16 feet, stone foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Edward L. Johnson, 1316 Clayton street, Wilmington.

Residence, Grant avenue, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick and stucco, 2 stories, 35x20 feet, shingle roof, hardwood floors, vapor heat, electric light, tile and marble work. Contract awarded to Edward L. Johnson, 1316 Clayton street, Wilmington, Del.

Factory, 715 East Fifth street, Wilmington, Del., $19,000. Architect, private plans. Owners, Martin Leather Co., on premises. Brick, 2 stories, 36x48 feet, slag roof, concrete and wood floors, steam heat, electric light, fire doors. Contract awarded to S. H. McCoy, 2213 Washington street, Wilmington.

Incinerator Plant, Liberty street, Wilmington, Del., $75,000. Architect, private plans. Owners, City of Wilmington Board of Health, Wilmington, Del. Brick, fireproof, 2 stories, 58x36 feet, slag roof, concrete and wood floors, electric light, fire doors. Contract awarded to Davis Garbage Furnace Co., Lancaster, Pa.

Miscellaneous Construction News

Stores and Apartment, Binghamton, N. Y. Architects, Russoniello & Price, Scranton Life Building, Scranton, Pa. Owners, Corlass Brothers, on premises. Frame and stucco, 2 stories, 48x72 feet, slag roof, pine floors, steam heat, electric light, plate glass, skylights, roof ventilators, metal ceilings. Plans in progress.

Residence, Winston-Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. A. Kent, Winston-Salem, N. C. Brick and hollow tile, 2½ stories, 42x50 feet, garage in basement, slate or tile roof, oak floors, vapor heat, electric light, tile work. Architect taking bids, due March 21st. Fogle Bros., Winston-Salem, N. C.; W. H. Fetter, Winston-Salem, N. C.; Robt. M. Hunter, Charlotte, N. C.; C. J. Michaels, Greensboro, N. C.; J. L. Crouso, Greensboro, N. C.; J. Sims Wilson Co., 1125 Brown street, and McNeill Valentine Co., 141 North Broad street, Philadelphia, are figuring.

Law School, Wheeling, W. Va. Architect, Charles W. Bates, Wheeling, W. Va. Owners, University of West Virginia, Sheeling, W. Va. Stone, 3 stories, 80x270 feet, slate roof, oak and pine floors. Architect taking bids, due March 27th. Penn Const. & Eng. Co., 3840 Spring Garden street, Philadelphia, figuring.

Church (add.), Seventh and Randolph streets, N. W., Washington, D. C. Architects, Charles L. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Petworth Baptist Church, Rev. Paul Langhorne, 619 Quincy avenue, N. W., Washington, D. C. Brick, 1 story and basement, 42x90 feet. Plans completed. Architects ready for bids.

Residence, Towson, Md. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, John Doebler, Baltimore, Md. Frame, clapboard, 2½ stories, 22x39 feet, shingle roof, oak and pine floors, hot water or vapor heat, electric light, tile work. Architect taking bids due March 21st. Louis R. Andrew and O. C. Hood, Riderwood, Md.; Louis C. Wood, Dovans, Md.; G. Walter Tovell, Eutah and McCulloh streets, and Hicks, Tase & Norris, Inc., 106 West Madison street, Baltimore, Md., figuring.

Department Store, Richmond, Va. Architect, Starrett & Van Vleck, 80 W. 40th st., N. Y. City. Owner, Miller and Rhoads, Inc., on premises. Brick and steel and terra cotta, 6 stories, 195x166 feet, Barrett roof, cement, oak and maple floors, hollow tile, metal lath, safety treads, water and dampproofing, iron work and stairs, fire doors, copper skylights, tile, marble and terrazzo work. Architects taking bids due March 20th. F. W. Mark Const. Co., Commercial Trust Building, Philadelphia, are figuring.

(Continued from page 168)

will be called from time to time, and it is hoped that within a reasonable time the work will have an important effect in stimulating building and reducing building costs.

The following was the representation present at the meeting: F. L. Ackerman, American Institute of Architects, New York; Dr. P. G. Agnew, American Engineering Standards Committee, New York; Carl F. Greishaber, Delano & Aldrich, New York; W. H. Ham, Bridgeport Housing Co., Bridgeport, Conn.; W. S. Hays, National Federation of Construction Industries, Philadelphia; Noble F. Hoggson, Hoggson Brothers, New York; Sullivan W. Jones, American Institute of Architects, New York; E. W. McCullough, Chamber of Commerce of U. S., Washington; Walter E. Trusdell, Consulting Construction Engineer, New York; Stephen F. Voorhees, American Institute of Architects, New York; Waddy B. Wood, Architect, Washington.

Representatives of the Department of Commerce: Dr. John M. Gries, Chief, Building and Housing Division; James S. Taylor, Administrative Assistant; Wm. A. Durgin, Chief, Division of Simplified Practice; Ray M. Hudson, Technical Assistant.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

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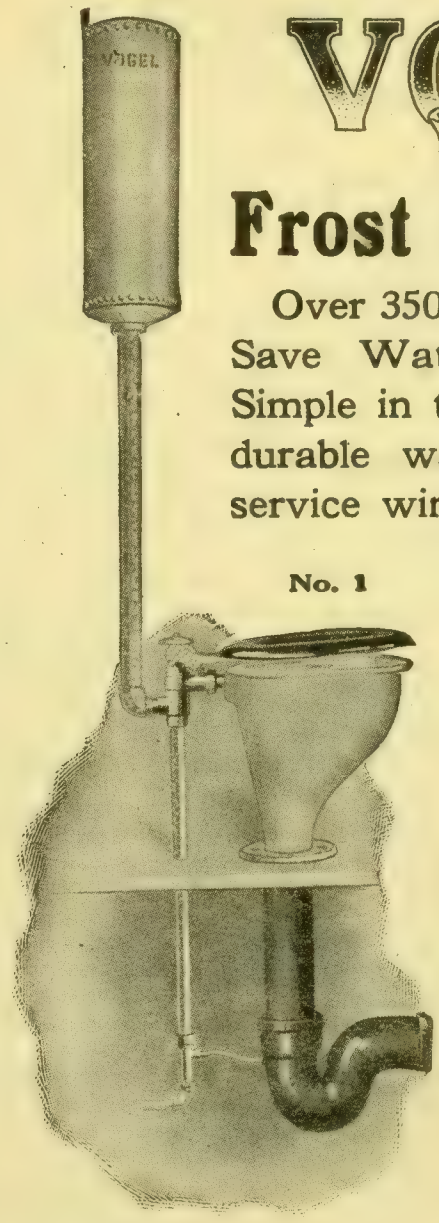
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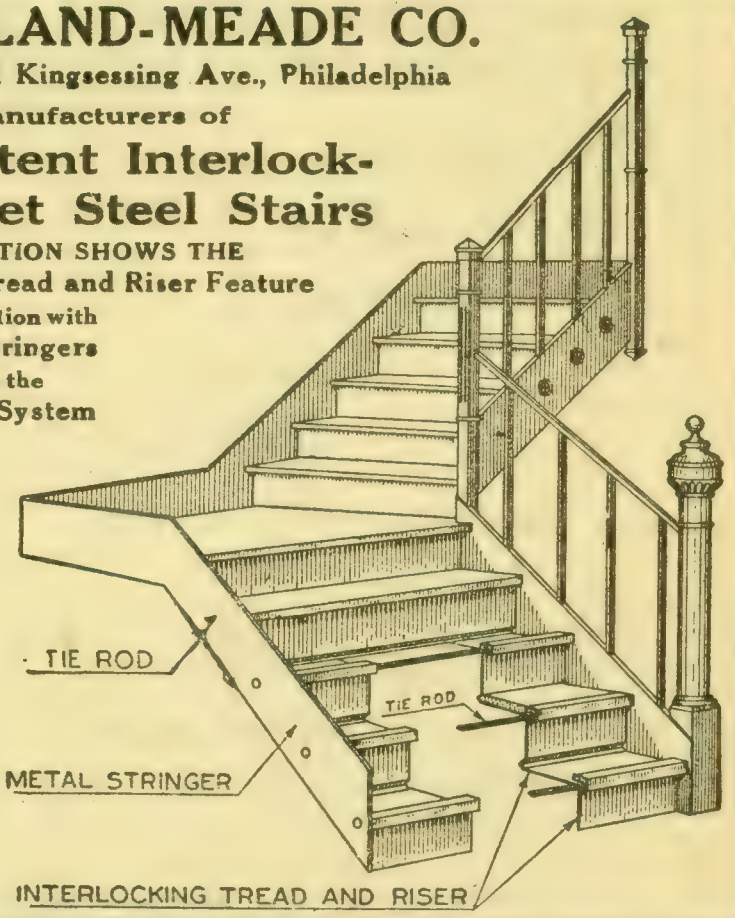
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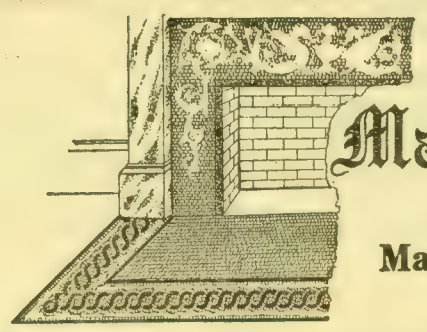
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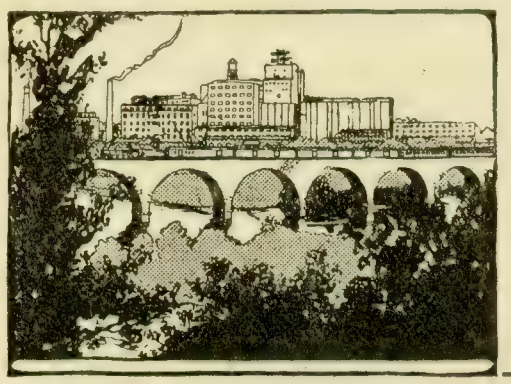
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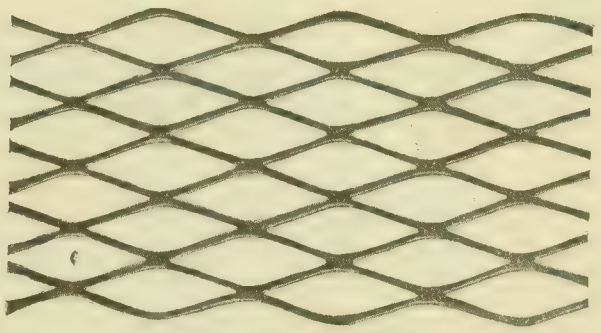
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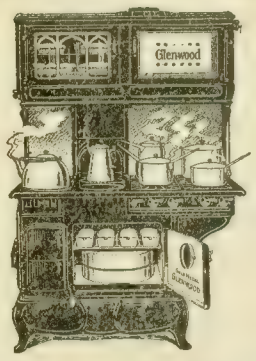
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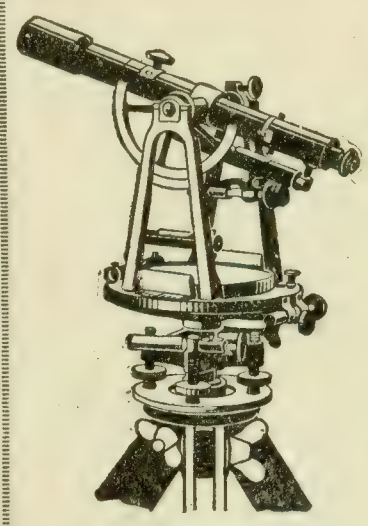
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As The Editor Sees It

ELIMINATING THE CONTRACTOR*

BY J. H. SCOBELL

Craig-Curtiss Co., Cleveland, Ohio

THE Fallacy of Attempting Partly to Eliminate the Contractor" is a subject that we have discussed in an informal way at one or two of our local luncheons. It seems that in Cleveland there has been a tendency on the part of the owner to place more of the so-called sub-trade contracts direct and the practice has grown considerably in the past two years. I am sorry that I haven't had a chance to find what has been the practice in other cities and whether that growth is similar to what we find in Cleveland or not.

In Cleveland we have always had, as far back as my memory serves, many cases of the owner placing the plumbing and heating trades direct. During the last two years we have had some instances where all of the sub-trade work except masonry, concrete and carpentry have been placed direct by the owner through the architect. As we all know that doesn't relieve the contractor of any great responsibility except the making of the contract, and, perhaps, the furnishing of the cash to pay the subcontractor.

Cost-With-Fixed-Fee Contracts.

As an evidence of just how far the practice has extended in Cleveland, I may say that we have handled in the last two years approximately twelve contracts of fair size. Of those twelve, eight of them were cost-with-fixed fee contracts. Of the twelve, in only three cases have we handled all of the sub-trade work. In the eight cost-with-fixed-fee contracts, we figured that the cost of the completed job was approximately six million dollars. Our part of that was under four million dollars, so that what happens is that our fixed fee is based on only a portion of the work for which we actually are required to be responsible.

The fact that a contractor, in handling only part of the work, has his fee limited by the amount of work estimated is one feature. Another is that it doesn't help the industry any to have that condition grow. It is a reflection on the general contractors of this city, and I think on the whole industry, to have him relieved from responsibility that he has had in the past and that he virtually must be responsible for, whether they are written in his contract or not.

Why Sub-Trades Deal With Owners

I am just going to say what I think are the causes and the effects. The cause, as I see it, is the preference of some of the mechanical trade contractors to deal direct with the owner or architect instead of through the general contractor. I might say that, to my knowledge, one of the mechanical trade associations in Cleveland has gone on record as requiring their members always, when possible, to make their contracts direct with the owner; and we have had some instances, at least one or two where it came to our attention, that the owner was furnished by a sub-contractor with a lower bid than were the general contractors. That practice can very easily be extended if we do nothing to stop it.

Another cause is that some of the subcontractors look out and furnish their own systems for use by the architect. I suppose another cause is that some contractors have in the past made substitutions in violation of the standard required by the architect. The big cause, however, is the apathy of the general cotractors, or the keen competition which permits of the practice.

Effect on the Contractor

The effect of this is to relieve the contractor of practically no responsibility that he otherwise would have had, except the payment of the money and the saving to the owner of part of the contractor's legitimate fee. The practice tends to discount the value and the importance of the services of the general contractor and likewise the industry.

As to the cure, I don't know. We have let it go by default; it is gathering ground, and I don't see how we are going

(Continued on Page 196)

*Address before the Building Division, Annual Meeting, A. G. C., Cleveland, O.

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Residence, Seventieth and Paschall avenue, Philadelphia, $35,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Daniel McNichol, care of architect. Stone, brick and stucco, 3 stories, slate roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Architect taking bids due March 27th at noon. George S. Roe, 6949 Saybrook avenue; Leroy K. Smith, Forty-first and Chester avenue; Julius Nelson, Sharon Hill, Pa.; J. D. Fisher, 5424 Thompson street; Frank R. Shriver, Fifty-first and Catherine streets, and C. Morris Swartley, 6135 Ridge avenue, are figuring.

Retaining Banks, West side of Penrose Ferry Bridge, Schuylkill River, Philadelphia. Owners, Department of Wharves, Docks and Ferries, George F. Sproule, Director, Bourse, Philadelphia. Construction of retaining banks appurtenant to city bulkhead. Owners taking bids due March 29th at noon.

Store and Apartments (alts.), 533 West Cumberland street. Architect, private plans. Owners, Mrs. Elizabeth Murray, on premises. Plastering, carpentry, hot water heat, electric light, metal bulks, plate glass. Owner taking bids due March 23rd. H. H. Wehmeyer, 509 West Cumberland street, is figuring.

Factory, G and Wyoming avenue. Architect, A. H. Meuller, 1713 Sansom street, Philadelphia. Owners, Wyoming Silk Products Co., 220 Northeast Boulevard, Philadelphia. Brick and steel, 1 story, 50x150 feet, slag roof, pine floors, steam heat, electric light, rolled steel sash, iron work. Owner taking bids due March 22nd. H. H. Wehmeyer, 509 West Cumberland street, is figuring.

Elevator Enclosures, Drexel Building, Philadelphia. Architect, Harris & Richards, Drexel Building, Philadelphia. Owners, Drexel Building, on premises. Metal lath, marble work, painting, plastering, metal work, glazing, concrete and cement work, electric work (doors separate bids). Architects taking bids due March 28th. H. H. Burrell, 206 South Quince street; F. W. Van Loon, Perry Building; F. A. Havens Co., 845 North Nineteenth street; H. E. Baton, 1713 Sansom street, and Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia, are figuring.

Store Building, 1229 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Goldberg Brothers, care of architect. Architects taking bids due March 27th at 1 P. M. Wark Co., 231 South Broad street; Lam Building Co., 1001 Wood street; Kober Const. Co., 34 South Seventeenth street; Smith-Hardican Co., 1606 Cherry street; William R. Dougherty, 1610 Sansom street; John Schnabel, Inc., Denckla Building, and Ketcham & McQuade, 1029 Brown street, are figuring.

Library (interior completion), Parkway, Nineteenth to Twentieth. Architect, Horace Trumbauer, Land Title Building. Owners, Department of Public Works and Free Library, Philadelphia. Plans in progress.

Warehouse (add.), Delaware avenue, between Pine and Lombard streets. Architects, Hoffman Henon, Inc., Finance Building. Owner, Pennsylvania Warehousing & Safe Deposit Co., George H. Earle, president, 113 South Third street. Concrete, steel, brick, 8 stories, 78x120 feet. Plans completed. Architects will take bids in a few days.

School, Shenandoah, Pa. Architect, Emile G. Perrot, Boyertown Building, Philadelphia. Owners, Roman Catholic Church of the Annunciation, care of Rev. John B. Dever, Shenandoah, Pa. Stone and frame, 3 stories and basement, 60x140 feet, asbestos shingle roof, pine floors (heating and electric work reserved). Plans completed. Owner is taking bids.

Residence (interior alts.), 753 South Eighth street, Philadelphia. Architect, M. Capobianca, 778 South Seventh street, Philadelphia. Owner, Louis La Croce, on premises. General interior alterations. Plans in progress.

Store and Residence (alts. and add.), Holmesburg, Philadelphia. Architect, M. Capobianca, 778 South Seventh street. Owner, Joseph B. Sabio, Holmesburg, Philadelphia. Brick, 2 stories, 16½x50 feet, slag roof, pine floors. Plans in progress.

Residence (alts. and add.), 1033 Randolph street. Architect, M. Capobianca, 778 South Seventh street. Owner, Ginnarino Castriope, on premises. General alterations and additions. Plans in progress.

Residence (alts. and add.), Overbrook, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street. Owner, Frederick Rakestraw, Overbrook, Philadelphia. General alterations and additions. Plans in progress. Architect will take bids in two weeks.

Playgrounds (3), Chew, Twenty-first and Conlin streets; Twenty-first, Beechwood, Conlin and Nedro streets; Disston, Gillespie, Glenlock and Longshore streets. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Welfare, Bureau of Recreation, B. H. Warburton, Director of Public Works, 595 City Hall. Construction, improvement and development. Owners taking bids due March 24th at noon.

Store and Apartments, 5017 North Fifth street. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, name withheld. Brick and steel, 2 stories, 20x100 feet, slag roof, oak and pine floors, metal lath and ceilings, iron work, copper skylights, hot water heat, electric light, tile and marble work. Architect will be ready for bids in one week.

Store and Residence (alts.), 1506 Spring Garden street. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, H. L. Bechtel, 3232 Ridge avenue, Philadelphia. Brick front, carpentry, mill work, plastering, metal bulks, plate glass. Owner is taking bids.

Residence (alts.) and Garage, Southwest Corner Fortieth and Baring streets. Architect, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, John H. Basford, Crozer Building, Philadelphia. Brick, oak floors, plastering, hot water heat, electric light, tile work, garage, brick, 1 story, 18x35 feet, slag roof, cement floors. Owner taking sub-bids.

Office Building, Seventh and Chestnut streets, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street. Owners, Washington Square Realty Co., care of architects. Brick, granite and steel, 6 stories and basement, 135x50 feet, slag roof, cement and maple floors, metal lath, elevators, waterproofing, terra cotta, iron work and stairs, Bond, copper skylights, fire doors, tile, marble and terrazzo. Architects taking bids due March 28th at noon. William R. Dougherty, 1610 Sansom street; H. John Homan, Inc., 1703 Chestnut street; Hughes Foulkrod Co., Commonwealth Building; William Linker Co., 735 Cherry street; F. E. Wallace, 1220 Chancellor street; Wark Co., 231 South Broad street; Kober Const. Co., 34 South Seventeenth street; Nelson Pedley Const. Co., 1615 Spruce street; P. H. Kelly Const. Co., 1713 Sansom street; John N. Gill Co., Otis Building; Pierce Henon Co., Juniper and Pine streets, and Charles McCaul Co., 1610 Sansom street, are figuring.

Church and Rectory, Twenty-fourth and Wolf streets, Philadelphia, $85,000. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Holy Ghost Greek Catholic Church, care of Rev. Andrew Zymko, 1931 West Passyunk avenue, Philadelphia. Stone and brick, 1 story and basement, 47x119 feet, and brick, 2½ stories, 18x60 feet, slate roof, hardwood and concrete floors, steam heat, electric lighting, tile work, structural steel. Architect and owner taking bids due early in April. Date not yet decided. Wills Bill Co., 1706 Sansom street; Nicolas Nardi, 1726 Sansom street; George H. Evans, Inc., 109 North Thirteenth street; George A. Glenn Co., Tenth and Columbia avenue; Frank Mark Cont. Co., 2820 North Twenty-first



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Parsonage, Olney avenue, near Third street, Olney, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, St. James' Methodist Episcopal Church, on premises. Stone and steel, 2½ stories, 57x23 feet, slate roof, oak and pine floors, metal lath (heating, lighting and plumbing reserved). Architects taking bids due March 23rd. William L. Bushnell, 322 West Tabor road; R. C. Ballinger Co., 925 Walnut street; H. E. Grau Co., 1707 Sansom street; F. L. Hoover & Son, 1023 Cherry street, and William J. Gruhler Co., 219 High street, are figuring.

Church, East Sharpnack street, Germantown, Philadelphia. Architect, private plans. Owners, Grace Baptist Church, care of Rev. J. Hughes, on premises. Stone, 2 stories, 54x80 feet, slate roof, pine floors, steam heat, electric light, iron work. Owner taking bids due March 31st. E. Allen Reeves, Inc., Abington, Pa., and Henry P. Schneider, 3713 Old York road, are figuring.

Building, 604-06-08 Bainbridge street, Philadelphia. Architect, M. Capobianca, 778 South Seventh street, Philadelphia. Owner, name withheld. Architect taking bids. John Roman, 414 East Bringhurst street; Frank Lucci, 1603 Ellsworth street; Philip Pinto, 1319 Tasker st., Phila.; Jos. MacCrane, 837 Walnut street, Collingdale; Samuel H. Levin, 1631 South Fifth street; S. C. Scurci, 709 South Seventh street, and Nicolas Nardi, 1726 Sansom street, Philadelphia, are figuring.

Store and Apartments, Oxford Pike, Wakeling and Saul streets. Architects, Lachman & Murphy, Drexel Building. Owner, George T. Sale, Liberty Building. Brick, cut stone, and steel, 3 stories and basement, 56x49x47 feet, slate and slag roof, oak and pine floors, metal lath, electric light, tile work, iron work. Architects taking bids. Ketcham & McQuade, 1029 Brown street, are figuring.

Stores and Apartments (4), Garrett road, opposite Sixty-ninth Street Terminal. Architect, Frank V. Nickels, 225 South Sydenham street. Owner, name withheld. Brick and cut stone, 2 stories, 45x71½ feet, slag roof, pine floors, hollow tile, hot water heat, electric light, tile work, iron work. Architect taking bids due March 23rd at noon. Pierce Henon Co., Juniper and Pine streets; F. B. Davis & Son, 240 North Sixteenth street; E. J. Kreitzburg, 1345 Arch street, and Kober Const. Co., 34 South Seventeenth street, are figuring.

Water Bureau Headquarters, Twenty-eighth and Cambria streets. Architect, private plans. Owners, Department of Public Works, Bureau of Water, Director Frank H. Caven, 216 City Hall, Philadelphia. Brick and steel, 1 story, 280x100 feet, gypsum tile roof, wood block and concrete floors, roof ventilators, rolled steel sash and ventilators and doors, Bond, iron work. Owners taking bids due March 28th. Inquire at Room 796. George Dobbin, 1020 South Forty-seventh street; H. E. Baton, 1713 Sansom street; Bowden Const. Co., 1713 Sansom street; George H. Evans, Inc., 109 North Thirteenth street; Robbins Cont. Co., 1137 North Front street; Mitchell Brothers, 2125 Race street; H. John Homan, 1703 Chestnut street, and John N. Gill & Co., Otis Building, are figuring.

Store and Warehouse, 312 South Fourth street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 22x185 feet, slag roof, cement, pine and maple floors, electric elevator, metal ceilings, waterproofing, hollow metal skylights, steam heat, electric light, plumbing, structural steel, cold water painting, fireproofing. Architect and Louis Cohen, 417 Christian street, taking sub-bids due as soon as possible.

Store and Residence (alts. and add.), 1607-09 Ridge avenue. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Robert Becker, care of architect. Brick and cut stone front, slag roof, composition floors, metal lath, plastering, hot water heat, electric light, plumbing, tile and terrazzo work, iron work, carpentry, mill work. Architect taking bids due March 24th. John Schnabel, Inc., Denckla Building; F. B. Davis & Son, 240 North Sixteenth street; E. E. Hollenback, Inc., 1804 Brandywine street; George H. Lockhart, 1524 Chestnut street; J. H. Hinkle, Twenty-fifth and Delancey streets; F. A. Havens Co., 845 North Nineteenth street, and George C. Clayton, 1817 North Twentieth street, are figuring.

Residence (alts. and add.), Chestnut Hill, Philadelphia. Architect, private plans. Owner, John Hopkins, care of builder. Stone, 2 stories, 19x32 feet, slate roof, oak and pine floors, hot water heat, electric lighting. Smith-Hardican Co., 1606 Cherry street, taking sub-bids due March 23rd.

Residence and Garage, 3220 Penn street, Germantown. Architect, private plans. Owner, V. E. Russ, on premises. Stone and brick, 2½ stories, 22x30 feet, and 1½ stories, 8x10 feet, slate roof, oak, pine and cement floors. Owner taking bids due as soon as possible. I. A. Dunkelberger, 71 East Herman street, and J. Y. Loux, Fifteenth and Hunting Park avenue, are figuring.

Miscellaneous Work and Supplies, City of Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Pipe and fittings for high pressure system, laying 24-inch cast iron pipe, boiler setting material, ash handling apparatus, water softening plants, forced draft dais, reduction gears, laying sidewalk on Allegheny avenue. Owners taking bids due March 28th. Inquire at Room 796.

Car Inspection Shop, Bridge Street Yard, Philadelphia. Architect, private plans. Owners, Department of City Transit, William S. Twining, Director, 1211 Chestnut street, Philadelphia. Owners taking bids due April 6th. Deposit $10.00.

Residences (10), Jackson and Faust streets, Philadelphia, $30,400. Architect, Harold Hammond, 1542 Sellers street, Philadelphia. Owners, Louis Merget & Brother, 5928 Hegerman street, Philadelphia. Brick, 2 stories, 14x27 feet, 10½x11 feet, 14x39 feet, slag roof, oak and yellow pine floors, hot air heat. Owner will build.

Store and Apartments (4), Thirteenth and Tioga streets. Architect, Edward Schoeppe, 315 South Fifteenth street. Owner, John A. Sibe, 1304 South Fifteenth street. Brick, 3 stories, 26x50 feet and 13x40 feet, slag roof, hardwood floors, electric lighting. Owner taking sub-bids.

Residences (26), (10) West side Lincoln Drive, (16), East side Lincoln Drive, South of Mt. Airy avenue, $9,000 each. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John H. McClatchey, Land Title Building, Philadelphia. Brick, stone, 3 stories, 18½x36 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

Residences, East side Lincoln Drive, South of Mt. Airy avenue, $18,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadel-



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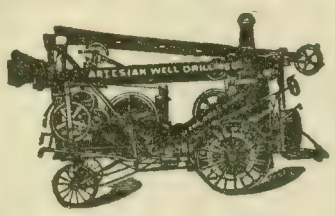
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phia. Owner, John H. McClatchey, Land Title Building, Philadelphia. Stone and brick, 3 stories, 20x36 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Garage, 1421 Courtland street, Philadelphia, $15,000. Architect, private plans. Owner, S. H. Marvel, 1416 Hunting Park avenue, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, steam heat, electric light, steel sash. Owner will build.

Garage, 3251-53 Germantown avenue, Philadelphia, $13,500. Architect, private plans. Owner, Jacob Kret, on premises. Brick, steel, 1 story, irregular size, slag roof, cement floors, steam heat, electric light, steel sash. Owner will build.

Residences and Garages (20), Fifteenth street, South of Somerville avenue, $4,980 each. Architect, private plans. Owner, Harry C. Weller, 1338 Ruscomb street, Philadelphia. Brick, 2 stories, 15x32 feet, 12x10 feet, hot water heat. Owner will build.

Residences (38), Atwood and Malvern and Atwood and Diamond streets, $174,000. Architect, private plans. Owner, Herman Beckershoff, 5156 Haverford avenue, Philadelphia. Brick, 2 stories, 18x36 feet, 17x31 feet, 12½x5½ feet, slag roof, hot water heat, electric light. Owner will build.

Residences (3), Carpenter and Sherman streets, $23,500. Architect, private plans. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Brick, 3 stories, 19½x18x17 feet and 22x18x17 feet, slag roof, hardwood and pine floors, hot water heat. Owner will build.

Residences (6), 3113-3123 Benner street, and (6) 6146-56 Gillespie street, Philadelphia, $42,000. Architect, private plans. Owner, William K. De Victor, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 15x45 feet and 15x33 feet, 12x12 feet, hot water heat, electric light, slag roof, maple floors. Owner will build.

Office (alts. and add.), 1516 Summer street, Philadelphia, $5,000. Architect, private plans. Owner, William E. Hale, 1636 Ludlow street, Philadelphia. Brick, steel, 3 stories, 11x14 feet, slag roof, oak and pine floors, hot water heat, electric light, tile and marble work. Owner will build.

Residence and Store (alts. and add.), 152 South Sixtieth street, Philadelphia, $5,000. Architect, private plans. Owner, M. Arzomanian, on premises. Brick, 1 and 2 stories, 15x17 feet and 3x18 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Building (alts. and add.), Southwest Corner Thirteenth and Spring Garden streets, $4,000. Architect, private plans. Owner, A. Schmerling, Twelfth and Spring Garden streets, Philadelphia. Brick, 1 story, 34x20 feet, slag roof, yellow pine floors, hot water heat, electric light. Owner will build.

Garage and Storage Building, Eleventh and Indiana avenue, $5,000. Architect, private plans. Owner, Eugene M. Mallo, 940 West Huntingdon street, Philadelphia. Brick, 1 story, 16½x45 feet, slag roof, cement floors, electric light. Owner will build.

Shop, 18 East Gorgas street, Philadelphia, $4,500. Architect, private plans. Owner, Andrew Knoff, on premises. Brick, 2 stories, 32x19 feet, slag roof, yellow pine floors, hot water heat, electric light. Owner will build.

Emergency House (alts.), Fifteenth street, North of Huntingdon street, $4,000. Architect, private plans. Owner, P. R. T. Co., 810 Dauphin street, Philadelphia. General alterations. Owner will build.

Store and Rooming House (add. and alts.), 1016-18 Locust street, $3,500. Architect, private plans. Owner, Naum Pericles, on premises. Brick, 1 story, 19½x11 feet, 3x12 feet, slag roof, yellow pine floors, electric light. Owner will build.

Residences (7), Markle and Mitchell streets, Philadelphia, $3,500 each. Architect, private plans. Owners, Louis G. & Henry C. Missimer, 124 Kalos street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Owners will build.

Residences (21), Fisher's avenue and Fairhill street, $84,500. Architect, private plans. Owner, Carl A. Mayer, 140 West Clarkson avenue, Philadelphia. Brick, 2 stories, 15x36 feet, 12x12 feet and 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residneces (34), Store and Residence (1), 901-69 East Price street, $149,400. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut Terrace, Philadelphia. Brick, 2 stories, 16½x34 feet and 18x30 feet, slag roof, oak and pine floors, electric light, hot water heat. Owner will build.

Field Office (alts.), 228 North Delaware avenue, Philadelphia. Architect, private plans. Owners, Delaware River Bridge Joint Commission, Widener Building. Lowest bidders: Friel McLeister Co., Inc., 2165 East Norris street, $8,440; Warren Brothers, 1113 Cherry street, $8,650.

Garage, Lemon, Watts and Ridge Avenue, Philadelphia. Architect, H. T. Wheldon, 10 South Eighteenth street. Owner, Louis J. olb, care of H. T. Saunder, 38 S. 16th street. Brick, 1 story, 260x151x124 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, hollow metal skylights, terra cotta. Owner taking bids due March 24th. Conneen Const. Co., 10 S. 18th street, and Monaghan and Losse, Inc., 3016 Chestnut street, are figuring.

Farm Buildings and Cottages, (Extensions and Add.), City Farms, Byberry, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street. Owner, Department of Public Health, Bureau of Hospitals, C. L. Furbush, M. D., 584 City Hall. Construction, erection, equipment, heating, plumbing and electric work. Owner taking bids due April 10th at noon.

Belfield Recreation Centre, Conlin, 21st, Nedro and Beechwood streets. Work No. 445. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Grading, fill, sodding, curbing, sidewalks, concrete work, baseball cage, painting, drinking fountains, convenience, iron fence and gates, terra cotta pipe. Owners taking bids due March 24th. Geo. H. Evans, Inc., 109 North Thirteenth street; Carter Paving Co., 641 North Eighteenth street; Kelley Const. Co., Bulletin Building; Mitchell Houseworth, Inc., 2512 North Twenty-seventh st.; Geo. Dobbin, 1020 South Forty-seventh st.; Empire Eng. Co., 2218 Chestnut street; Wayne Iron Co., Commercial Trust Building; Fred Burrelli, 6413 Callowhill street; Geo. B. Clopp, 3717 Filbert street; Jas. Shatz, 2503

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Germantown avenue; Raymond Const. Co., 5609 Germantown Avenue; Holmesburg Concrete Co., Holmesburg, Pa., and Mundy Paving Co. 228 South Alder street, are figuring.

Residence Building for Internes and Home for Attendants and Domestic Help, Thirty-fourth and Pine streets. Architect, P. H. Johnson, 1713 Sansom street. Owners, Department of Public Health, 584 City Hall, Philadelphia. Brick, 3 stories, 14x105 feet, and 2 stories, 93x38 feet, and (2) wings, 88x37 feet, slag roof, granolithic, linoleum and pine floors, hollow tile, metal lath, elevators, metal window guards, weather strips, waterproofing, terra cotta, iron work and stairs, bond, hollow metal sash, rolled steel skylights, tile, marble and terrazzo work, demolition (heating, plumbing and electric work separate bids). Lowest bids on building for internes, Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, 282,357; T. J. & J. R. Whelan, Seventeenth and Summer streets, $283,692. Hheating, Charles E. Monday & Co., 1318 Olive street, $20,163. Electric, Electric Cont. Co., Inc., 111 West Eighth street, Wilmington, Del., $10,765. Plumbing, N. Connolly, 1404 North Eighteenth street, $12,971. Bids on home for attendants: T. J. & J. R. Whelan, Seventeenth and Summer streets, $154,977; F. W. Mark Cont. Co., Commercial Trust Building, $155,000. Plumbing, N. Connolly, 1404 North Eighteenth street, $8,838. Heating, Charles Monday & Co., 1318 Olive street, $12,300. Electric, United Elect. & Const. Co., 1727 Sansom street, $4,397.

Office Building (alts.), 603-05 Chestnut street. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, United Security Life Insurance & Trust Co., 605 Chestnut street. Preliminary plans in progress. Too early for details.

Store and Dwelling, Germantown avenue and Oxford street. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, name withheld. Tapestry brick, 3 stories, 37x72 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work (store fixtures reserved), metal bulks, plate glass. Revised plans in progress. Will take bids in a month.

Residence, South side Gilham street, West of J street, $4,500. Architect, private plans. Owner, Edward Shuttleworth, 2517 East Norris street, Philadelphia. Brick, 3 stories, 17x38 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (10), 5824-42 Fairhill street, Philadelphia, $5,000 each. Architect, private plans. Owner, Walter S. Bauer, 5802 North Fifth street, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Residences (2), 928-30 Herbert street, and **(4)** 4701-03-07-09 Ramona street, Philadelphia, $7,500 each. Architect, private plans. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 16x47 feet, slag roof, oak and yellow pine floors, electric light, hot water heat. Owner will build.

Residences (13), Dyer street, East of Saul street, $4,400 each. Architect, private plans. Owner, Charles G. Erney, 4665 Paul street, Philadelphia. Brick, 2 stories, 15x30 feet, 10x10 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (14), Dyer street, East of Oaklane street, $5,000 each, and **(32)**, North and South side Ruscomb street, East of Mascher street, $3,500 each. Architect, private plans. Owner, Charles G. Erny, 4665 Paul street, Philadelphia. Brick, 2 stories, 15x25 feet, 10x10 feet and 16x30 feet, 10x12 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residence, Sixth street, North of Chelten avenue, Oak Lane, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street. Owner, H. L. Peak, 235 North Thirty-fifth street. Brick, 2½ stories, 30x19 feet, wing 26x18 feet, slag roof, oak and pine floors, metal lath, hot water heat, electric light, tile work, waterproofing, iron work. Architect taking bids due March 27th. E. H. Keefer & Son, 1321 Rodman street; William J. Gruhler, 219 High street; J. S. Cornell, Morris Building; J. Howard Roberts, Lansdowne, Pa.; Thomas C. Trafford, 1613 Sansom street; Specht & Sperry, Heed Building; Samuel Harting, 20 East Johnson street; Charles McCaul Co., 1619 Sansom street, and W. O. Springer, 2004 Naudain street, are figuring.

Manufacturing Plant, Twenty-first and Hunting Park avenue. Architect, Frank E. Hanh, 1112 Chestnut street, Philadelphia. Owners, Hensel Colladay Co., Twelfth and Wood streets. Architects taking bids due March 28th. J. S. Rogers Co., Drexel Building; Cramp & Co., Denckla Building; Hughes-Foulkrod Co., Commonwealth Building; Irwin & Leighton, 126 North Twelfth street; Kober Const. Co., 34 South Seventeenth street; Turner Const. Co., 1713 Sansom street; Wark Co., 231 South Broad street; William R. Dougherty, 1610 Sansom street; Pierce Henon Co., Juniper and Pine streets; McNeill Valentine Co., 841 North Broad street; H. E. Baton, 1713 Sansom street; Potts Brothers & Cooperson, 129 North Eleventh street; F. W. Warren, 132 South Seventeenth street, and Levering & Garrigues, North American Building, are figuring.

Disston Recreation Centre, Disston, Gillespie, Greenlock and Longshore streets, Philadelphia, Work No. 452. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Grading, fill, sodding, curbing, sidewalks, concrete work, baseball cage, painting, drinking fountains, convenience, iron fence and gate, terra cotta pipe. Owners taking bids due March 24th at noon. Carter Paving Co., 641 North Eighteenth street; Kelly Construction Co., Bulletin Building; Mitchell Houseworth Co., 2512 North Twenty-seventh street; Empire Eng. Co., 2218 Chestnut street; Wayne Iron Co., Commercial Trust Building; L. B. Thompson, 908 Shackamaxon street; Fred. Burrelli, 6413 Callowhill street, Fidelity Deposit Co.; Curtis Brothers, Tacony; James Shatz, 2503 Germantown avenue; Holmesburg Concrete Co., Holmesburg, Pa., and Mundy Paving Co., 228 South Alder street, are figuring.

School and Chapel, Fifty-fourth and Diamond streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street. Owners, St. Barnabas' Roman Catholic Church, care of Rev. Joseph L. Wolfe, premises. Stone and cut stone. Plans in progress. Too early for details.

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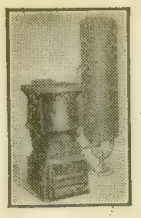
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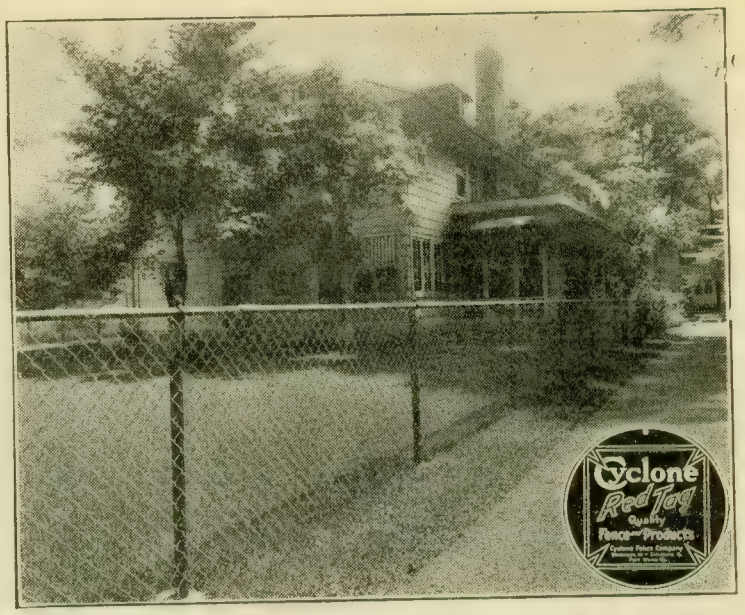
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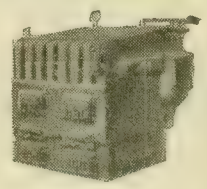
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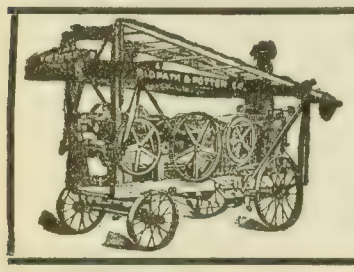
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Conlin streets, Work No. 450. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Concrete work, fill, grading, sodding, drainage, iron fence, iron and steel work, terra cotta pipe. Building, 1 story, 47x27 feet, terra cotta tile and stucco, concrete floors, metal lath, shingle roof, waterproofing. Owners taking bids due March 24th. George H. Evans, Inc., 109 North Thirteenth street; Carter Paving Co., 641 North Eighteenth street; Kelly Const. Co., Bulletin Building; Mitchell Houseworth Co., 2512 North Twenty-seventh street; William Linker Co., 735 Cherry street; George Dobbin, 1020 South Forty-seventh street; Empire Eng. Co., 2218 Chestnut street; Wayne Iron Co., Commercial Trust Building; George B. Clopp, 3717 Filbert street; James Shatz, 2503 Germantown avenue; Raymond Const. Co., 5609 Germantown avenue; Holmesburg Concrete Co., Holmesburg, Pa.; Mundy Pavig Co., 228 South Alder street; Natioal Const. Co., 2218 Chestnut street, are figuring.

Morgue, Second and Luzerne streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Health, Bureau of Hospitals, C. L. Furbush, M. D., City Hall. Construction, erection, equipment, including heating, plumbing and electric work. Owners taking bids due April 10th.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alts. and add.), 1008 South Forty-sixth street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street. Owner, Thomas S. Slattery, on premises. Brick and iron, carpentry, mill work, slate roof, oak floors, plastering, hardware, painting, electric work, tile work. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street.

Bridge, Spring Garden street, Philadelphia. Owners, Department of Public Works, Bureau of Grades and Crossings, City Hall. Repairs to brick, paving and iron work. Lowest bidders: Brown King Const. Co., Commercial Trust Building; J. Kelly Cont. Co., Bulletin Building, Philadelphia.

Residence, Northwest Corner Sixty-fifth avenue and Sixth street, Philadelphia, $12,000. Architect, private plans. Owner, C. E. Drehman, 2622 Parrish street, Philadelphia. Stone, 3 stories, 45x28 feet, 20x13 feet, slate roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Drehman Paving & Const. Co., 2622 Parrish street.

Residence, West side Front street, North of Luray street, $4,000. Architect, private plans. Owner, Herman Weiland, 44 Ashdale street, Philadelphia. Brick, 2 stories, 16x47 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to G. V. Simon, 4908 North Fourth street, Philadelphia.

Store (alts.), 1014 Market street, Philadelphia, $4,000. Architect, private plans. Owner, James Spear Estate, 325 Chestnut street, Philadelphia. General interior alterations. Contract awarded to Thomas S. Keefer & Son, 1321 Rodman street.

Store and Residence (add.), Northeast Corner Sixtieth and Haverford, $3,600. Architect, private plans. Owners, Brown Brothers, on premises. Brick, 1 story, 36x18 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Merion Const. Co., 2315 Walnut street.

Church, Sunday School and Gymnasium, Tenth and Ruscomb streets, Philadelphia. Architects, Ritcher & Eiler, Reading, Pa. Owners, Olivet Reformed Congregation, care of Rev. Morris Samson, 5030 North Twelfth street. Stone and steel, 1 and 2 stories, 104x88 feet, slate and Carey built up roof, cement and maple floors, metal lath, water and dampproofing, iron work, floor hardener, hollow metal sash, steam heating, electric light, rolled steel skylights. Contract awarded to D. A. McClelland Co., Drexel Building, Philadelphia.

Carpet Mill, Kinsey and Hedge streets, Philadelphia. Architect, private plans. Owners, Alva Carpet & Rug Co., on premises. Brick and steel, 3 stories and basement, 50x150 feet, slag roof, cement and pine floors, steam heat, electric light, rolled steel sash and skylights, elevators. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Hosiery Mill, Louden and Mascher streets, Philadelphia. Architect, private plans. Owners, Cambria Silk Hosiery Co., A and Cambria streets. Brick and steel, 2 stories and basement, 119x53 feet and 53x184 feet, slag roof, cement floors, elevators, waterproofing, rolled steel sash and skylights, steam heat, electric lighting. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Show and Stock Room, Eleventh street below Glenwood avenue. Architect, William H. Wooters, 816 West Allegheny avenue. Owner, Joseph T. Brown, care of architect. Brick, slow burning, 3 stories, 32x98 feet, slag roof, maple floors, metal lath, elevators, metal ceilings, steam heating, electric lighting. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Nurses' Dining Room (alts.), Old York road, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street. Owners, Jewish Hospital, Old York road, Philadelphia. Cement work, carpentry, mill work, painting, plumbing, changing electric work, tile work. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Community Garage and Store, Franklin street, Oak Lane, Philadelphia. Owner, John L. Baughman, Oak Lane, Philadelphia. Stone and brick, 1 story, 20x85 feet, slag roof, cement and pine floors, electric lighting. Contract awarded to Tony Oliverieri, 1578 Adams street, Frankford, Philadelphia.

Jefferson Exchange, Foulkrod and Leiper streets, Frankford. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets. Brick, cut stone, terra cotta and steel, 2 stories, 71x146 feet and 33x54 feet, slag roof, concrete floors, waterproofing, demolition, steam heat, electric light, tile and marble work, hollow metal sash, water-

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proofing. Contract awarded to Irwin & Leighton, 126 North Twelfth street.

Store (alts.), 110-12 North Second street, Philadelphia, $16,000. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Samuel Berkowitz, Hancock and Susquehanna avenue. Brick and steel (slow burning), 4 stories and basement, 25x100 feet, slag roof, pine floors, metal lath and ceilings, (1) elevator, steam heat, electric light, rolled steel sash and skylights, kalamein doors, metal bulks, iron work. Contract awarded to Joseph Cichiny, 10 South Eighteenth street, Philadelphia.

Store Building (alts.), 1524 Locust street, $8,900. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, Leroy Hemingway, 1524 Locust street. Electric work, cut stone, plumbing, steel work, slag roof, painting, glazing, carpentry, mill work. Contract awarded to Harry Platt, 1701 Chestnut street.

Residence (alts.), 533 West Hortter street. Architects, Stuckert Co., Crozer Building. Owner, Robert Crane, on premises. Brick, cut stone, mill work, sheet metal work, terrazzo or composition floors (heating, lighting and glazing reserved). Contract awarded to William C. Wright, 22 Harvey street, Philadelphia.

Residences (40), Fifty-fourth and Euclid avenue, $141,400. Architect, private plans. Owners, Ramsey, Williams & Wright, 6042 Cobbs Creek Boulevard. Brick, 2 stories, 18x32 feet and 20x38 feet, slag roof, hot water heat. Contract awarded to Harry T. Williams, 731 South Sixtieth street, Philadelphia.

Residences and Stores (3) and Residence (1), Fifth and Lindley avenue, $23,000. Architect, private plans. Owner, John Donohue, 4920 North Fifth street, Philadelphia. Brick, 2 stories, 14½x48 feet, 12x12 feet, 20x29 feet and 16x60 feet. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

Garage, 3526-30 North Front street, Philadelphia, $9,000. Architect, private plans. Owner, George Joss, 3400 North Front street, Philadelphia. Brick and steel, 1 story, 67x106 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to Henry Hofmaier, 2247 North Fifth street, Philadelphia.

Residence and Store, 1626 East Passyunk avenue, Philadelphia, $8,000. Architect, private plans. Owner, M. Shear, 1624 East Passyunk avenue, Philadelphia. Brick, 2 stories, 17x60 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, Contract awarded to H. Harad, 1621 Point Breeze avenue, Philadelphia.

Residence, North side Sanger street, West of Second street, $7,625. Architect, private plans. Owner, Rudolph Limeburner, 1852 Leithgow street, Philadelphia. Frame, 1 story, 28x28 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Fesmire Brothers, Huntingdon Valley, Pa.

Store and Residence, South side Woodland avenue, East of Seventieth street, $8,000. Architect, private plans. Owner, Hannah Levin, 2018 South Sixth street, Philadelphia. Brick, 2 stories, 32x33 feet, 9x33 feet, hot water heating. Also garage, 1 story, 40x18 feet, $2,000. Contract awarded to Levin Brothers, 2018 South Sixth street, Philadelphia.

Residence, North side Hermitage street, East of Ridge avenue, $7,500. Architect, private plans. Owner, Lee Wetherill, 4534 Manayunk avenue, Philadelphia. Stone and frame, 2 stories, 26x32 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Henry Specht, Jr., Willow Grove, Pa.

Stable, 145-47 Noble street, Philadelphia, $7,000. Architect, private plans. Owner, O. Levin, 131 Noble street, Philadelphia. Brick, 2 stories, 32x62 feet, slag roof, electric light. Contract awarded to S. H. Levin, 1631 South Fifth street, Philadelphia.

Apartment (alts.), 1701 Oxford street, Philadelphia, $4,000. Architect, private plans. Owners, Elliott Realty Co., 734 Market street, Philadelphia. Carpentry, mill work, painting, glazing. Contract awarded to William P. Woodley, 6004 Hazelhurst street.

Garage, 1349 North Front street, Philadelphia, $4,000. Architect, private plans. Owner, S. H. Brown, 1420 Chestnut street, Philadelphia. Brick, 1 story, 20x100 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Hayes Mendenhall & Son, Drexel Building.

Building (alts. and add.), 108 North Nineteenth street, Philadelphia, $5,000. Architect, private plans. Owners, Warner, Sterner & Seipps, 619 Land Title Building, Philadelphia. Brick, 1 story, 18x15 feet and 6x8 feet, slag roof, oak floors, hot water heat, electric light. Contract awarded to Charles J. W. Platt, 1015 Arch street, Philadelphia.

Apartment (alts. and add.), Northeast Corner Ridge avenue and Gerhart street, $5,000. Architect, private plans. Owner, William J. Lovett, 534 Dupont street, Philadelphia. Brick and steel, 1 story, 19x18 feet, slag roof, composition floors, hot water heat, electric light. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

Residence and Store, 5828 Torresdale avenue, Philadelphia, $4,600. Architect, private plans. Owner, A. H. Welsh, 5826 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x20 feet, 13x20 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Lewis Dietrich, 3016 Comly street, Philadelphia.

Shop, 6151 Girard avenue, Philadelphia, $3,200. Architect, private plans. Owner, Alfred Steinmetz, on premises. Brick, 1 story, 25x56 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Seeds & Steinmetz, 117 South Alder street, Philadelphia.

Building (alts.), Tabor road, East of Second street, $3,000. Architect, private plans. Owners, W. H. Whitaker & Sons, on premises. General interior fire repairs. Contract awarded to Frank G. English, 1608 North Carlisle street.

Warehouse (add.), 145 Produce street, Philadelphia, $2,970. Architect, private plans. Owner, H. R. Kirfaber, on premises. Brick, 4 stories, 14x40 feet, slag roof, yellow pine floors. Contract awarded to A. P. Fraim, 319 Market street, Philadelphia.

Storage and Shop, 336 North Third street, Philadelphia, $2,000. Architect, private plans. Owner, Benjamin Slatka, on premises. Brick, yellow pine floors, slag roof. Contract awarded to Leon M. Wajdyk, 516 McClellan street.

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Building (fire repairs), 119 North Sixth street, $3,000. Architect, private plans. Owners, George F. Creutzberg & Son, on premises. General restoration, new floors, painting, plastering. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Residence and Store (alts.), 1624 East Passyunk avenue, $2,500. Architect, private plans. Owner, M. Shear, on premises. General interior alterations. Contract awarded to H. Harad, 1621 Point Breeze avenue, Philadelphia.

Shop and Storage Building (add.), 2733 North Sixth street, $2,325. Architect, private plans. Owners, Crescent Tea Co., 2731 North Sixth street, Philadelphia. Brick, 1 story, 21½x18 feet, 17½x16 feet, 5x10½ feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to W. Guenst, 600 West Lehigh avenue, Philadelphia.

Store and Dwelling (add.), 3045 West Dauphin street, $2,300. Architect, private plans. Owner, Samuel Naehm, on premises. Brick, 1 story, 18x7 feet, slag roof, pine floors. Contract awarded to Joseph Spector, 2321 North Thirty-first street.

Residence and Store (alts. and add.), 4663 Paul street, $2,500. Architect, private plans. Owner, George W. Toland, on premises. Brick, 2 stories, 20½x12 feet, 6½x11 feet, slag roof, yellow pine floors. Contract awarded to George W. Crossley, 2264 Bridge street, Philadelphia.

Shop (add.), 245 North Eleventh street, Philadelphia, $2,500. Architect, private plans. Owner, T. R. Humphreys, on premises. Brick, 2 stories, 20x38 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

Garage, 6710 Lincoln Drive, Philadelphia, $2,000. Architect, private plans. Owner, R. K. Johnson, on premises. Stone, 1 story, 21x25 feet, slate roof, cement floors. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

Residence, Magee street, West of Oakley street, Philadelphia, $5,500. Architect, private plans. Owner, Mrs. F. Benzing, 716 Allegheny avenue, Philadelphia. Frame and stone, 2 stories, 29 feet 10 inches x 34 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to William Schmitt, 4939 North Fairhill street, Philadelphia.

Garage (add.), 213-15 Fitzwater street, Philadelphia, $5,250. Architect, private plans. Owner, S. Goodman, on premises. Brick, 1 story, 18x135 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to I. Gold, 2028 South Fifth street, Philadelphia.

Shop, Northeast Corner Fairhill and Diamond streets, $5,177. Architect, private plans. Owner, Harry Koenig, Jr., 2550 North Twelfth street, Philadelphia. Brick, 2 stories, 29x38x36 feet, slag roof, cement floors, electric lighting. Contract awarded to William H. Vanderpool, 2420 North Alder street.

Garage, Southwest Corner Allegheny avenue and Third street, Philadelphia, $5,000. Architect, private plans. Owners, Mason, Scholes & Co., 410 Allegheny avenue, Philadelphia. Brick, 1 story, 40x100 feet and 7x12 feet, slag roof, cement floors, steam heat, electric light, steel sash. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Garage, 1931-33 North Woodstock street, Philadelphia, $4,250. Architect, private plans. Owner, A. S. Carver, 1305 Diamond street, Philadelphia. Brick and steel, 1 story, 36x100 feet, slag roof, cement floors. Contract awarded to B. W. Glover, 3320 Fairmount avenue.

Residence and Store (alts.), 4749 North Eleventh street, Philadelphia, $4,000. Architect, private plans. Owner, Hyman Felton, on premises. Brick, 2 stories, 12x6 feet and 16x8 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Wittenberg & Chipin, 3 North Nineteenth street.

Residence (add.), 2663 East Norris street, Philadelphia, $2,000. Architect, private plans. Owner, Peter Monaghan, on premises. Brick, 1 story, 12x12 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Andrew Donaldson, 108 North Gorgas street.

Mill Building (add.), 417 East Somerset street, Philadelphia, $2,000. Architect, private plans. Owner, John Young, 1417 Spruce street, Philadelphia. Corrugated iron, 1 story, 33x54 feet, cement floors. Contract awarded to William L. Noe Co., Second and Oxford streets, Philadelphia.

Residence and Store, southeast corner of Fifty-seventh and Ridgewood avenue, $4,700. Architect, private plans. Owners, Shapiro & Reed, 5300 Chestnut street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to James P. Campbell, 535 Parker street, Collindale, Pa.

Factory, Roosevelt Boulevard, east of Second street, Philadelphia, $90,000. Architect, private plans. Owners, McCallum Hosiery Co., Northampton, Mass. Brick, steel, 3 stories, 85x174 feet, slag roof, maple floors, steam heat, electric light, steel sash, skylights, fire doors. Contract awarded to W. W. Lindsay & Co., Harrison Building, Philadelphia.

NIce Plant, southwest corner of Palmetto and Hellerman streets, Philadelphia, $6,0000. Architect, private plans. Owners, Fred Oakley & E. A. Schmeidler, 38 Unruh street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric light. Contract awarded to Fesmire Bros., Huntingdon Valley, Pa.

Garage, south side of Schiller street, east of Eighth street, Philadelphia, $3,500. Architect, private plans. Owner, Helen M. Chapman, 1802 North Seventh street, Philadelphia. Brick, 1 story, 20x99 feet, 16x88 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to W. S. Chapman, 1805 West Venango street, Philadelphia.

Store (alts.), southeast corner of Thirteenth and Chestnut streets, $3,000. Architect, private plans. Owner, Frank DeLong, on premises. Metal lath, painting, glazing, plastering, carpentry, millwork, metal bulks. Contract awarded to A. Zellfelder, 151 South Broad street, Philadelphia.

Business Building (add.), northeast corner of Eighteenth and Susquehanna avenue, $2,000. Architect, private plans. Owner, Minna Stein, 2103 North Eighteenth street, Philadelphia. Brick, 3 stories, 16x14 feet, slag roof, yellow pine floors. Contract awarded to W. S. Heister, 2531 North Cleveland street.

Store and Apartments, Frankford avenue and Gillingham street. Architect, Lachman & Murphy, Drexel Building. Owner, Frank G. Shuler, 4536 Frankford avenue. Contract awarded to John Fotheringham, Castor road and Arrott street.

Apartment House, 1304 North Sixtieth street, $8,000. Architect, Fred. D. Dagit, 3759 North Bouvier street. Owners, Finnaren & Haley, Sixtieth and Thompson streets. Brick, 2 stories, 16x75 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Edward V. Holland, 1037 South Fifty-fourth street.

Pennsylvania Construction News

Residence and Garage, Overbrook, Pa. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, Morris Schwartz, care of architect. Stone and steel, 2½ stories, 82x38 feet, and 1½ stories, 18x19 feet, slag roof, canvas and Spanish tile roof, oak, pine and cement floors, metal lath and weather strips, dampproofing, iron work, Bond, tile and marble work (vapor heat, electric light and plumbing reserved). Architect taking bids due March 24th. J. M. Yardley, 1716 Sansom street; William J. Ryder, 1716 Sansom street; F. G. Stewart, 1619 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine street, and Turnbull & Cornell, 20 South Eighteenth street, are figuring.

Garage, Coal street and Stein's Alley, Pottsville, Pa. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, John G. Royal, Pottsville, Pa. Brick and steel, 1 story, 45x35 feet, slag roof, cement floors, steam heat, electric light, hollow metal skylights, terra cotta. Architects taking bids due March 27th. W. J. Messersmith, Pottsville, Pa.; Clarkson Base, O. J. Aregood and Gordon Nagle, all of Pottsville, Pa.; F. A. Havens Co., 845 North Nineteenth street, and F. W. Van Loon, Perry Building, Philadelphia, are figuring.

High School, Twelfth street, Easton, Pa. Architects, Michler & Shnyder, Easton, Pa. Consulting architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, Board of Education, R. E. Piefer, secretary, West Second street, Easton. Reinforced concrete, brick and steel, 3 stories and basement, 250x200 feet, slag roof, maple floors, metal lath, safety treads, roof ventilators, tile, marble and terrazzo work, iron stairs and work. Plans in progress.

Junior High School, South Side, Easton, Pa. Architects, Michler & Shnyder, Easton, Pa. Consulting architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Stone, 2 stories and basement, 250x65 feet, slag roof, maple floors, tile, marble and terrazzo work, rolled steel skylights, roof ventilators, iron work. Plans in progress.

Residence, Highland Park, Delaware County, Pa. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owner, William Sheen, care of architect. Hollow tile, 2 stories, 28x44 feet, asphalt shingle roof, pine floors, hot water heat, electric light. Plans in progress.

Residence, Brookline, Delaware County, Pa. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owner, H. Bond, care of architect. Stone, 2 stories, 25x42 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Ambler, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, R. C. Collins, Ambler, Pa. Stone and frame, 2½ stories, 39x25 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Manoa Heights, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, John Guthrie, 220 North Sixty-second street, Philadelphia. Frame and stucco, 2½ stories, 35x33 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Plans completed.

Bungalow, Florida Park, Newtown Square, Pa. Architect, Durham Brothers, 1609 Sansom street. Owner, Fred. Lowall, care of architects. Stone, 1½ stories, 32x45 feet, asbestos shingle roof, oak and pine floors, hot water heat, electric lighting. Plans in progress.

Residence, Glenside, Pa. Architect, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, W. C. Hardy, Keith Building, Philadelphia. Frame, 2½ stories, 28x30 feet, shingle roof, oak and pine floors, hot water heat, electric lighting. Plans completed. Ready for bids.

Junior High School, Allentown, Pa., $900,000. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, Wil-

son Arbogast Junior High School, Edgar H. W. Helfrich, president; David H. Jacks, chairman Building Committee. Architect selected. Details undecided.

Twin Residence, Elkins Park, Pa. Architect, private plans. Owner, Joseph Coonahan, care of builder. Brick, 2 stories, 30x30 feet, slag roof, oak and pine floors, hot air heat, electric lighting. E. Allen Reeves, Inc., Abington, Pa., taking sub-bids due as soon as possible.

Chapel and Parochial School, Bethlehem, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Ursula's Roman Catholic Church, care of Rev. J. R. Green, 835 Broadway, Bethlehem, Pa. Brick, 1 and 2 stories. Plans in progress. Architect will take bids in about two weeks.

Residences (2), Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, J. Moran, Ardmore, Pa. Frame and stucco, 2½ stories, 32x24 feet, shingle roof, pine floors, hot air heat, electric lighting. Plans about completed. Ready for bids in one week.

Club House, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owners, Ardmore Tennis Club, Walter K. Durham, chairman, Ardmore, Pa. Frame and clapboard, 1½ stories, 24x40 feet, shingle roof, maple floors, electric lighting. Architect will be ready for bids in a few days.

Residences (2), Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, George W. Klenk, 210 Main street, Phoenixville, Pa. Brick, stone, 2½ stories, 33x40 feet, asbestos shingle roof, hardwood floors (heating, plumbing, lighting reserved), terra cotta. Plans in progress. Owner will take bids.

Mill Building (add.), Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, E. Emmens & Co., First avenue, Royersford, Pa. Brick, stone, 4 stories, 50x38 feet, slate roof, yellow pine floors (heating, plumbing, lighting reserved), fireproofing. Plans in progress. Owner will take bids.

Knitting Mill, Pottstown, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, R. A. Reiff, 620 North Hanover street, Pottstown, Pa. Frame, stone, 1 story, 50x100 feet, composition roof, yellow pine floors, steam heat (heating, lighting and plumbing reserved), ventilators. Plans in progress. Owner will take bids.

Residence, Sutton road, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Sol Speer, Ardmore, Pa. Hollow tile, frame and stucco, 2 stories, 44x25 feet, shingle roof, oak and pine floors, hot water heat, electric lighting, tile work. Architect taking bids due as soon as possible. Stewart Hutchinson, Ardmore, Pa.; Harbeson & Jensen, Brookline, Pa., and D. Ridgway Evans, Penfield, Pa., are figuring.

Dairy Building (add.), Ninth and Hyatt streets, Chester, Pa. Engineer, R. J. Lawrence, Roxboro, Philadelphia. Owners, Chester Dairy Supply Co., on premises. Brick, second story addition, 150x45 feet, raising roof, maple floors, rolled steel sash and doors. Owners taking bids due March 24th. F. W. Van Loon, Perry Building, figuring.

Residences (12), Somerton, Pa. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, name withheld. Hollow tile, frame and stucco, 2 stories, 30x30 feet, hot water heat, electric lighting, hardwood and pine floors. Plans in progress.

Office Building, Southwest Corner Seventh and Chestnut streets. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, name withheld. Architect ready for bids. H. John Homan, 1703 Chestnut street, will figure.

Publishing Building, Easton, Pa. Architect, A. D. Chidsey, 34½ Northampton street, Easton, Pa. Owners, Easton Express, care of architect. Reinforced concrete, brick, terra cotta, 3 stories, 60x150 feet, concrete foundations, slag roof, concrete, tile and composition floors, steam heat, electric light, tile, marble and terrazzo work, metal lath. Architect will take bids this week.

Garage, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, H. A. Foering, 828 West Broad street, Bethlehem, Pa. Steel, concrete and brick, 3 stories, 60x100 feet, slag roof, concrete floors, steam heat, electric light, metal lath, freight elevators. Architect taking revised bids due March 27th. F. F. Speck, 49 West Broad street; F. B. Glassmire, Bethlehem Trust Building; Brillhart Brothers, Bethlehem Trust Building; Garber & Cissel, 12 West Fourth street; Charles F. Schwartz, H. E. Stoudt, 424 Avenue C; George W. Heller, 719 North New street; R. S. Rathbun, 409 Vine street; F. J. Groman, 79 West Broad street, Bethlehem, are figuring.

Residence and Garage, Easton, Pa. Architect, William M. Michler, Drake Building, Easton, Pa. Owner, J. S. Chipman, Easton, Pa. Brick, stone, tile, 2½ stories, 80x90 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Architect taking bids due March 23rd. Bechtel & Bechtel, Northampton National Bank Building; F. J. Lerch, Pine and West streets; W. H. Snyder and R. T. & C. D. Stewart Cont. Co., Jones Building, Easton, Pa., figuring.

Municipal Building, Upper Darby Township, Pa. Architect, Willis A. Hall, Sixty-ninth Street Post Office Building, Upper Darby. Owners, Upper Darby Township. Brick, cut stone and steel, 2 stories, 75x38 feet, slag roof, cement, pine and composition floors, metal lath, safety treads, roof ventilators, terra cotta, marble work, kalamein doors, floor hardener, iron work (heating, lighting and plumbing reserved). Architect taking bids due April 1st. Bowden Const. Co., 1713 Sansom street, are figuring.

Residence, Merion, Pa. Architect, C. P. Berger, 1424 South Penn Square. Owner, Dr. George Betz, 1533 Green street, Philadelphia. Architect taking bids due March 24th. John E. Kearney, 34 South Seventeenth street, is figuring.

Bungalow, Springfield, Pa. Architect, J. Fletcher Street, 129 South Fifth street. Owner, Miss E. M. Dougherty, 5001 Cedar avenue. Owner taking bids due March 21st. John W. Kohl, 1401 North Corlies street, is figuring.

Store and Apartment, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, J. M. Bachman, Seventeenth and Union streets, Allentown, Pa. Brick, 3 stories, 32x76 feet, slag roof, hardwood floors, steam heat, electric light, tile work, plate glass, copper front. Plans in progress.

Residence, Summit Lawn, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Captain George Ormrod, 38 South Ninth street, Allentown, Pa. Brick, stone, 1½ stories, 35x45 feet, slate roof, hardwood floors, steam heat, electric light. Contract awarded to A. E. Nicholas, Allentown, Pa.

Memorial Club Building, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sons of Veterans, Charles Adams, chairman, Allentown, Pa. Brick, stone, tile, 5 stories and basement, 70x160 feet, built-up roof, hardwood floors, fan and steam heat, electric light, tile work, hollow tile, metal lath, elevator, roof ventilators, fireproof, slate and wood stairs, ornamental iron work. Plans in progress.

Administration Building (add.), 31 Penn street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, School District, City of Allentown, David Jacks, chairman, Allentown, Pa. Brick, fireproof, 3 stories, 52x64 feet, slag roof, hardwood floors, electric light, elevators. Plans in progress.

Bakery (add.), Coplay, Pa. Architect, C. N. Grossart, 603 Hamilton street, Allentown, Pa. Owner, William J. Burke, Coplay, Pa. Brick, 1 story, 24x48 feet, concrete and maple floors, hot water heat, electric light. Architect taking bids due March 25th. Joseph Marks, Leroy Zellner, Coplay, Pa.; A. W. Hirst, Northampton, and Butz & Clader, Allentown, Pa., are figuring.

Apartment and Store, North Sixteenth street, Allentown, Pa. Architect, C. N. Grossart, 603 Hamilton street, Allentown, Pa. Owner, Dr. H. Jordan, Allentown, Pa. Brick, 3 stories, 20x110 feet. Architect ready for bids due April 1st.

Pennsylvania Contracts Awarded

High School, Gymnasium and Auditorium, Darby and Coopertown roads, Haverford, Pa. Architects, Boyd, Abel & Gugert, Estey Building, Philadelphia. Owners, School District of Haverford Township, Joseph W. Huff, Oakmont, Pa. Brick, cut stone, 2 stories and 1 story, 177x72 feet, (2) wings, 83x58 feet, slag roof, cement and maple floors, metal lath and window guards, bond, tile work, iron work. Contract awarded to Bowden Const. Co., 1713 Sansom street, $193,413. Heating and ventilating to Bower Brothers, 1629 Ludlow street, $29,192, deduct $1,050. Plumbing to D. J. Keating, 2042 Rittenhouse street, $13,475, deduct $275. Electric work to Bryn Mawr Elect. Co., Bryn Mawr, Pa., $4,989, deduct $489.

School, Oaks, Upper Providence Township, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street. Owners, School District of Upper Providence Township, Pa. Brick, cut stone and iron, 1 story and basement, 80x72 feet, slag and slate roof, pine floors, hollow tile, tile work (heating and lighting reserved). Contract awarded to H. E. Schallcross, Gratersford, Pa.

High School, Wayne, Pa. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, School Board of Radnor Township, Wayne, Pa. Brick and steel, 2 stories, 66x130 feet, slag roof, maple floors. Contract awarded to F. V. Warren, 132 South Seventeenth street, $116,127, 175 days. Plumbing to Walters, Purks & Mellon, Forty-first and Ludlow streets, $6,523. Heating, Wayne Plumbing & Heating Co., Wayne, Pa., $8,207. Electric work to George Woodward, Jr., 1723 Sansom street, $3,255.

Bungalow, Willow Grove, Pa. Architect, private plans. Owner, William C. Voigtsberger, Willow Grove, Pa. Frame, 1 story, 26x33 feet, concrete foundations, shingle roof, North Carolina pine floors (plumbing and hot water heating reserved), electric lighting. Contract awarded to Roy Randall, Horsham, Pa.

Residence, Merion, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, J. Clayton Strawbridge, Merion, Pa. Stone, 2½ stories, 90x34 feet and 16x20 feet, shingle roof, oak and pine floors, metal lath, steam heat, electric light, tile and marble work, bond. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Residence, Haverford, Pa. Architects, Thomas, Martin & Kirkpatrick, 130 South Fifteenth street. Owners, Mrs. McClure Fahnestock, Haverford, Pa. Stone, 2½ stories, 37x34 feet, shingle roof, oak and pine floors, hot water heat, electric lighting. Con-

tract awarded to Herbert G. Campion, Otis Building, Philadelphia.

School (add.), Darby, Pa., $30,000. Architect, F. Ferdinand Durang, 1220 Locust street. Owners, Roman Catholic Church of the B. V. M., Darby, Pa. Brick, cut stone and steel, 2½ stories, 57x11 feet, slate roof, pine floors, demolition, bond, pine floors (heating, electric work and plumbing reserved). Contract awarded to Edward Fay & Son, 2 South Mole street.

Residence, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, William Morris, Ardmore, Pa. Frame, 2½ stories, 28x27 feet, shingle roof, electric lighting. Contract awarded to Stewart Hutchinson, Ardmore, Pa.

Church, Brookline, Pa. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Brookline Methodist Episcopal Church, Brookline, Pa. Stone, 33x45 feet, slate roof, pine floors, steam heat, electric lighting (plastering and painting reserved). Contract awarded to Penn Const. & Eng. Co., 3840 Spring Garden street, Philadelphia.

Memorial Walls, Entrance and Gates, Cemetery, Birdsboro, Pa. Landscape engineer, Leonard Morse, 1524 Chestnut street, Philadelphia. Owners, St. Michael's Protestant Episcopal Cemetery, Birdsboro, Pa. Contract awarded to D. A. McClelland Const. Co., Drexel Building.

Residence, Ardmore, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street. Owner, J. V. Slaughter, Ardmore, Pa. Hollow tile and stucco. Contract awarded to Adolph Korn & Co., Clifton Heights, Pa.

Residence (alts.) to Apartments, Lansdowne, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Jesse E. Huntley, 107 Owens avenue, Lansdowne, Pa. General alterations, slate roof, oak and pine floors, central heating, electric lighting, tile work, changing to three apartments. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

Bulkhead, Platform, Beater Room Building and Room No. 1, Front and Market streets, Chester, Pa. Architect, private plans. Owners, Chester Paper Co., on premises. Brick and steel, 1 story, 85x43 feet, gypsum slag covered roof, concrete floors, waterproofing, rolled steel sash and skylights. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street.

Road Work, Pennsylvania. Owners, State Highway Department, Capitol Building, Harrisburg, Pa.

Clarion County, R-65, Ashland and Elk Townships, $211,149.85. Contract awarded to Kavanaugh & De Niro, Youngstown, Ohio.

Washington County, R-268, Speers & Dunlevy Boroughs and Allen Township. Contract awarded to R. Galiardi & Sons, Connellsville, Pa., $133,247.

Northumberland County, R-18, Upper Augusta Township, $27,120.50. Contract awarded to Gregory Paving Co., Lewistown, Pa.

Venango County, R-65, Rockland and Cranberry Townships, $316,345.43. Contract awarded to Kavanaugh & De Niro, Youngstown, Ohio.

The contract on Clearfield County, Curwensville Borough, has been transferred from Lynn A. Brua, JrJ., to George E. Thompson, Clearfield, Pa.

Blair-Centre Counties, R-57, Snyder, Taylor and Rush Townships. Contract awarded to Clark Const. Co., Hastings, Pa., $371,367.35.

Butler-Venango Counties, R-318, 233, Mercer and Irwin Townships and Harrisonville Borough. Contract awarded to Buckeye Const. Co., Youngstown, O., $457,361.25.

Cumberland County, A-1707, West Pennsboro Township, $204,322.62. Contract awarded to the Development & Const. Co., Baltimore, Md.

Jefferson County, Route 61, Appli. 1590, Snyder Township, $89,496.20. Contract awarded to Austin Rankin Cooper, Idamar, Pa.

New Jersey Construction News

Library, Vincenttown, N. J. Architects, Stewardson & Page, 315 South Fifteenth street. Owners, Sally Stretch Keen Memorial Library, Vincentown, N. J. Brick and cut stone, 1 story, 45x26 feet, slate roof, pine floors, metal lath, tile work, Bond, iron work, pipeless heater. Architects taking new bids. William R. Dougherty, 1610 Sansom street, will figure.

Office and Residence (alts. and add.), 2901 Westfield street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Dr. Fred. Jones, care of architects. Timber, 3 stories, 20x60 feet, asbestos shingle roof, hardwood floors, vapor heat, electric light, tile and marble work. Architect will take bids next week.

Store and Residence (alts.), 2621 Westfield avenue, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, J. M. Eichman, on premises. General interior alterations. Plans in progress.

Sales and Service Building, Federal and Newton avenue, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Studebaker Sales & Service Co., care of architects. Fireproof, 1 story, 150x175x160 feet, slag roof, concrete floors, electric lighting. Plans in progress.

Sanitary Bottling Plant, Gloucester, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Gloucester Sanitary Milk Co., care of architects. Fireproof, 2 stories, 40x50 feet, slag roof, concrete floors, electric light. Plans in progress.

Apartment, location withheld. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, name withheld. Brick, fireproof, 3 stories, 200x200 feet, slag roof, composition floors, vapor heat, electric light, tile work. Plans in progress.

Service Station and Garage, Main Road, Hammonton, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Hammonton Auto Station, Hammonton, N. J. Tile, plaster, 1 story, 26x30 feet, tile roof, concrete floors, electric lighting. Plans in progress.

Residence, Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Upton Jefferies, care of architect. Cinder block, tile, 2 stories, 24x60 feet, asbestos shingle roof, hardwood floors, vapor heat, electric light. Plans in progress.

Hospital, Atlantic City, N. J. Architect, H. A. Stout, and H. Vaughn Mathis, associated, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Atlantic City, City Hall, Atlantic City, N. J. Architects selected.

School, 904 Pacific avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Beth Israel Synagogue, care of architect. Brick, 2 stories, 40x50 feet, slag roof, pine floors, electric light, roof ventilators. Plans in progress.

Abattoir and Store, Kentucky and Drexel avenues, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, City of Atlantic City, care of Mayer Bader, Atlantic City, N. J. Brick, 1 story, 112x212 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Memorial Buildings, Portland and Ventnor avenues, Ventnor, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owners, Deane Memorial Home, care of architect. Hollow tile, stucco, 2½ stories, 50x60 feet each, hardwood floors, electric light, tile work. Plans in progress.

School (add.), Idlewood, N. J., $38,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Board of Education, H. B. Lee, May's Landing, Egg Harbor Township. Brick, 2 stories, 40x70 feet, pine floors, electric light. Plans in progress.

Bank (alts.), Victoria avenue, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owners, Ventnor Trust Company, care of architect. New front, cut stone, terrazzo floors, tile and marble work, electric light, vault. Architect will take bids April 1st.

Garage, North Virginia avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Harry Best, Virginia Garage, Atlantic City. Brick, steel, 1 story, 55x150 feet, slag roof, concrete floors, hot water heat, electric light, rolled steel sash. Owner ready for bids.

Residence, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Joseph Brearley, 403 Market street, Trenton, N. J. Brick and frame, 2½ stories, 25x45 feet, slate roof, hardwood floors, vacuum heating, electric lighting, tile and marble work. Architect will be ready for bids about March 20th.

Residence (alts. and add.) and Garage, Ivy Court, Trenton. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, care of architect. Brick, 18x20 feet, slate roof, concrete floors, electric lighting, sun parlor. Architect ready for bids.

Residence, Belmont Circle, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mr. C. R. Waller, 493 Chambers street, Trenton, N. J. Brick, 3 stories, 26x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect ready for bids.

Stores and Apartments (2), Greenwood and Olden avenues, Trenton. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Ambrose N. Coleman, Somerville, N. J. Brick, 2½ stories, 30x60 feet, slate roof, hardwood floors, hot water heat, electric light, tile and terrazzo work, metal lath, metal bulks. Architect ready for bids.

Residence, Margate City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, L. L. Jones, 1019 Atlantic avenue, Atlantic City, N. J. Brick, stucco, 2½ stories, 88x40 feet, shingle roof, hardwood floors, hot water heat, electric light. Architect will take bids.

Cottage, Pleasantville, N. J., $15,000. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, Russell Thatcher, care of architect. Hollow tile and stucco, 2 stories, 35x30 feet, hardwood floors, hot water heat, electric light. Architect will take bids in two weeks.

Residence, Pleasantville, N. J. Architect, C. H. Adams, Guarantee Trust Building, Atlantic City. Owner, Alphonso Seiner, 14 South Maryland avenue, Atlantic City. Frame, 2 stories, 24x47 feet, asphalt shingle roof, pine floors, hot water heat, electric light, tile work. Owner ready for bids.

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Nelson C. Denney, care of architects. Cinder block, 2½ stories, 37x29 feet, shingle roof, pine floors, hot water heat, electric light. Architect will take bids next week.

Apartments (22), New Jersey and Oriental avenues, Atlantic City. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City. Owner, Max Dolinky, 1308 Pacific avenue, Atlantic City. Brick, 3 stories and basement, 67x96 feet, slag roof, steam heat, electric light, tile and marble work. Owner taking sub-bids.

Cleaning Plant (add.), 340 North Carolina avenue, Atlantic City. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Bogaton Dyer & Cleaner Co., on premises. Brick, steel, 1 story, 17x100 feet, slag roof, cement floors, electric light. Owner ready for sub-bids.

Store (alts. and add.), 26 Federal street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Trenton, N. J. Owners, Lonsdale Company, care of architects. Brick, 2 stories, 40x100 feet, slag roof, pine floors, vapor heat, electric light. Architect taking sub-bids.

Store, Twenty-fourth and Federal streets, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, M. J. Jubanyik, 40 North Third street, Camden, N. J. Brick, 1 story, 30x60 feet, slag roof, concrete floors, steam heat, electric light. Owner will build.

School, Dining Hall, Cottages, Boiler House and Pump House, Scudders Farm, Trenton Junction, N. J. Architects, Guilbert & Betelle, Newark, N. J., and A. H. Moses, Temple Building, Camden, N. J. Owners, School for Deaf, Committee of Education, Capitol Building, Trenton, N. J. Brick, cut stone, steel, 1 story, 170x51 feet, 2 wings, 80x50 feet and 51x59 feet, cottages, 1½ stories, 93x32 feet, wing 33x44 feet, boiler house, 1 story, 48x42 feet, pump house, 1 story, 30x15 feet, slate and slag roof, cement and pine floors, metal lath, safety treads, metal window guards, water and dampproofing, kalamein doors, rolled steel sash, skylights, tile, marble and terrazzo work, steam heat, electric light. Owners taking bids due March 28th at 11 A. M. Wills-Bill & Co., 1706 Sansom street; William Linker Co., 735 Cherry street; Sinclair & Grigg, Medical Arts Building; Franklin M. Harris & Co., 1520 Parrish street, all of Philadelphia; Carroll & Pullen, Princeton, N. J.; Thomas M. Day & Son, 1109 Greenwood avenue; J. H. Morris & Co., Broad and Hudson streets; Karno Smith Co., Broad Street Bank Building; N. A. K. Bugbee, 206 East Hanover street, all of Trenton; D. W. McGee Const. Co., Newark, N. J.; Arnolt-Moore, Inc., 45 Clinton street, Newark, N. J.; George DeKimpe Const. Co., 141 Summit avenue, West Hoboken, N. J.; The Carleton Co., Broadway and Forty-second street; George Dose Eng. Co., 43 West Twenty-seventh street, both of New York, are figuring.

Bank (alts.), Collingswood, N. J. Architect, Philip H. Merz, Pennsylvania Building, Philadelphia. Owners, Collingswood National Bank, Collingswood, N. J. Limestone front, structural steel, carpentry, mill work, slag roof, metal lath, iron work, tile and marble work. Architect taking bids due March 23rd. Frank G. Stewart, 1619 Sansom street; McNeill Valentine Co., 841 North Broad street; Ketcham & McQuade, 1029 Brown street, Philadelphia; R. A. Scarborough, Collingswood, N. J., and Isador Green & Son, Camden, N. J., are figuring.

Residence, Merchantville, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, R. H. Swain, care of architect. Terra cotta and stucco, 2 stories, 26x40 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Architect taking bids due March 29th. George Bachman, 19 North Thirtieth street, and H. A. Fern, Camden, N. J.; George W. Shaner & Son, Palmyra, N. J.; Martin James, Merchantville, N. J., and William Congezer, Haddon Heights, N. J., are figuring.

Twin Residences, Bridgeton, N. J. Architect, Walter Custer, Law Building, Camden, N. J. Owner, Luther Meyers, care of architect. Frame, 2 stories, 36x38 feet, shingle roof, pine floors, hot water heat, electric light. Architect taking bids due as soon as possible. Mark Williams, Carl & Carl, H. Hankins and George Meyer & Brother, all of Bridgeton, N. J., are figuring.

Caddy House and Garage, Tavistock, Haddonfield, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Tavistock Country Club, near Haddonfield, N. J. Frame, 1 story, irregular size. Architect taking bids. Heavner & Guthridge, Norristown, Pa.; Charles Wright, Riverton, N. J., and H. G. Hinchman, Camden, N. J., are figuring.

Apartment Building, Northwest Corner Oakland and Atlantic avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Harry Weinmann, 233 South Connecticut avenue, Atlantic City, N. J. Brick and steel, 3 stories. Architect taking bids. Lam Building Co., 1001 Wood street, Philadelphia, is figuring.

Residence, Sea Isle City, N. J. Architect, M. Capobianca, 778 South Seventh street. Owner, Mr. Gentile, 725 Kater street, Philadelphia. Frame, 2½ stories, 20x40 feet, slag roof, electric light. Owner taking sub-bids.

Residence, West Collingswood, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Frank Shephard, care of architect. Frame, 2 stories, 20x44 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light. Architect taking sub-bids.

Stores (4), Federal street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Bleakley Brothers, care of architects. Cinder block and plaster, 1 story, 50x85 feet, slag roof, pine floors, pipeless heat, electric light. Architects taking sub-bids.

Detention House, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Camden County Board of Freeholders, Charles F. Wise, chairman, Camden County Courthouse, Camden, N. J. Brick, stone, 3 stories, 16x16 feet, vapor heat, electric light, tile work, fireproofing, metal lath, reinforced concrete floors. Revised plans in progress. Will be ready for bids next week.

Church, East Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Westminster Presbyterian Church, D. C. Frazer Hadley, chairman Building Committee, Camden, N. J. Sketches in progress.

School, Gloucester, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, School Board, W. G. Bradway, president, Gloucester, N. J. Fireproof, 2 stories, 24 rooms, slag roof, maple and concrete floors (plumbing, heating and electric work reserved), rolled steel sash and skylights, roof ventilators, water and dampproofing, iron stairs. Sketches in progress.

High School, Toms River, N. J. Architect, E. F. Cook, Asbury Park, N. J. Owners, Board of Education, Toms River, N. J. Stone, brick, steel and concrete. Architect selected. Plans in progress.

Exposition Buildings (2), Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton, N. J. Owners, Interstate Fair Association, care of architect. Steel, tile and stucco, 2 stories. Too early for details.

Residence and Garage, Whittier and Belmont Circle, Trenton. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, W. C. Billman, 1320 West State street, Trenton, N. J. Stone and stucco, 2½ stories, 82x34 feet, garage, 1 story, 20x20 feet, slate roof, hardwood and cement floors, vapor heat, electric light, tile and marble work. Plans in progress.

Garage, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, William Weinmann, West Hanover and Barnes streets, Trenton, N. J. Brick, steel, fireproof, 2 stories, 66x120 feet, slag roof, concrete floors, steam heat, electric light, metal lath, freight elevator, rolled steel sash and skylights, roof ventilators, fire doors, floor hardener, concrete stairs. Plans in progress.

School Building, Runnemede, N. J., and **School Addition**, Lawnside, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Board of Education, Township of Centre, Camden County, Harry Maloney, District Clerk, Mt. Ephraim, N. J. Brick, 2 stories, 59¾x38½ feet, slag roof, 2-room addition to Lawnside School (plumbing, heating and electric work separate bids). Owners taking bids due April 8th at 8.30 P. M. at Bellmawr School. Deposit on building plans, $15.00. Deposit on other plans, $5.00.

Residence, Merchantville, N. J. Architect, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Edward B. Humphray, care of architects. Tile, plaster, 2½ stories, 60x35 feet, Spanish tile roof, hardwood floors, electric light, tile and marble work. Plans in progress.

High School, Bridgeton, N. J. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education, Mr. McGowan, secretary, Bridgeton, N. J. Stone and brick, 2 stories. Plans in progress.

Office Building, Phillipsburg, N. J. Architect, A. D. Chidsey, Jr., 34½ Northampton street, Easton, Pa. Owners, Warren Foundry & Machine Co., Phillipsburg, N. J. Concrete, brick, 2 stories and basement, 80x60 feet, slag roof, maple floors, steam heat, electric light, tile work, skylights. Plans in progress.

Masonic Building, Vineland, N. J. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Masonic Temple, Vineland, N. J. Brick and cut stone, 3 stories, 98x51 feet, slag roof, maple floors, metal lath, steam heat, electric light, tile work, iron work. Architect taking bids due March 28th. W. P. Cameron Eng. Co. Witherspoon Building; E. H. Keefer & Son, 1321 Rodman street, Philadelphia; James Pasquali, Vineland, N. J.; Goslin Lumber Co., Wildwood, N. J., and Charles N. Scheible, Vineland, N. J., are figuring.

Residence, Ventnor avenue, Atlantic City. Architects, Rubin & Ve Shancey, care of owner. Owner, Philip I. Schaeffer, Stock Exchange Building, Philadelphia. Owner taking bids due as soon as possible. Lam Building Co., 1001 Wood street, are figuring.

Store and Apartments, between Trenton and Harrisburg avenues on Atlantic avenue, Atlantic City. Architect, E. N. Wootton, Atlantic City, N. J. Owner, J. J. Jones, 1 North Brighton avenue, Atlantic City. Architect taking bids due as soon as possible. Lam Building Co., 1001 Wood street, Philadelphia, are figuring.

War Memorial, Pacific, between States and Maryland avenues, Atlantic City. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, Board of Commissioners, City Hall, Atlantic City, N. J. Brick, cut stone and steel, 2 stories, 100x55 feet, J-M roof, concrete and maple floors, hollow tile, metal lath, waterproofing, iron work and stairs, kalamein doors, rolled steel sash, tile, marble and terrazzo work (steam heat, electric light and plumbing separate bids). Architect taking bids due April 6th. John R. Wiggins Co., Eighteenth and Cherry streets, Philadelphia. Philip G. Hannum, Wilbert Beaumont, Samuel H. Headley and M. B. Markland, Atlantic City, N. J.; Charles Y. Barlow, renton, N. J., and F. V. Warren Co., 132 South Seventeenth street, Philadelphia, are figuring.

New Jersey Contracts Awarded

School (add.), Maple Shade, Hamilton Township, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Board of Education, W. Robinson, secretary, Greenwood School, Greenwood street, Trenton, N. J. Brick, 2 stories, 40x90 feet, slag roof, hardwood floors, hollow tile, metal lath, tile work, skylights, fire doors, iron stairs (heating, plumbing and electric work reserved). Contract awarded to Burton & Burton, American Mechanics' Bank Building, Trenton, N. J., $50,599. Plumbing to William G. Royer Co., 510 Stuyvesant street, Trenton, $12,810. Electrical work to Jackson Electric Co., Trenton, $2,395.40.

Manufacturing Building, Camden, N. J. Architects, Ballinger & Co., Twelfth and Chestnut sts., Phila. Owners, J. B. Van Sciver Co., Camden, N. J. Reinforced concrete, 7 stories, 220x60 feet and 60x100 feet, slag roof, concrete floors, cork insulation, wood block paving, metal lath, hollow tile, safety treads, waterproofing, dampproofing, structural steel, hollow steel doors, rolled steel sash, marble and terrazzo work. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

(Continued from Page 183)

to cure it except by co-ordinated effort of our local and our national associations. It either is a menace or it isn't. I think it is, and my associates think it is, and I think it can only be done by a system of education. We've got to show that we can do the work better. We've got to show owners that what they are attempting to do in the contracting fields isn't done in his own business. A capable executive never fails to delegate authority where he delegates accountability, and that is exactly what is being done when we divide up the authority on a building contract.

"Mountains are moved by faith, because faith is the basis of public opinion, and public opinion moves the world." It is only through that kind of educational work that we can hope to change this condition.—*Constructor.*

PROPOSALS

INVITATION FOR PROPOSALS.

GENERAL ADVERTISEMENT ON THE CONSTRUCTION OF BUILDINGS FOR NEW JERSEY SCHOOL FOR THE DEAF

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct a School and Dining Hall combined—several cottages, Boiler House, and Pump House where shown on plot plan, on ground known as the Scudder Farm, near Trenton Junction, N. J., for the New Jersey School for the Deaf, will be received and opened by the Architects at the office of the Commissioner of Education, State House, Trenton, New Jersey, on March 28th, at eleven (11) o'clock A. M.

The work for which proposals are hereby invited covers the complete construction of the School Building and Dining Hall combined, and several cottages, the Boiler House and the Pump House, including water supply, eleteric work, heating and ventilating, and drainage, all ready for movable equipment.

Bids will be received for the work under five separate contracts as follows:

1. For general construction of entire group of buildings consisting of the School and Dining Hall building combined, the cottages, and the Boiler House.

2. For plumbing work for the entire group of buildings as above.

3. For the electrical work for the entire group of buildings as above.

4. For the heating work for the entire group of buildings as above.

5. For sewage disposal plant with Pump House complete.

The right is reserved to accept or reject any or all proposals. All bids must be in sealed envelopes endorsed "Proposal for New Jersey School for the Deaf," and stating the branch of work covered. No bid will be considered unless accompanied by a certified check to the order of the State of New Jersey, in the amount of five per cent. of the bid, or bid bond in like amount, binding the bidder to execute a contract if awarded to him. The terms of proposal with surety required are fixed by the specifications.

Copies of the drawings and specifications will be on file at the office of the architects for the purpose of estimating. A limited number of copies of the plans and specifications will be loaned to the prospective bidders on deposit of a certified check to their order in the sum of $50. These plans may be obtained by application to Arnold H. Moses, Architect, Temple Building, Camden, New Jersey. If plans and specifications are returned or before the submission of estimates the check will be returned, but should the plans and specifications be not returned, the deposit may become forfeited.

Guilbert & Betelle,
Arnold H. Moses,
Associated Architects.

Dated March 4, 1922.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 14, 1922. Sealed Proposals will be opened in this office at 3 P. M., March 29, 1922, for furnishing and delivering laundry machinery, all carrier charges paid, to the respective superintendents of construction, United States Veteran's Hospital, Ft. Logan H. Roots, Ark.; United States Veterans' Hospital, Ft. Walla Walla, Wash., and United States Veterans' Hospital, Oteen, N. C. Specifications may be obtained at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

DEPARTMENT OF PUBLIC WORKS
BUREAU OF WATER

Sealed proposals will be received and opened at Room 216, City Hall, until 12 o'clock noon on Tuesday, March 28th, 1922, for the following:

Contract No. 571—Pipe and Fittings for High Pressure System.
Contract No. 573—Laying 24" Cast Iron Water Pipe.
Contract No. 574—Boiler Setting Material.
Contract No. 575—Ash Handling Apparatus.
Contract No. 576—Water Softening Plants.
Contract No. 577—Forced Draft Fans.
Contract No. 578—Reduction Gears.
Contract No. 579—Laying Sidewalk on Allegheny Avenue.
Contract No. 580—Headquarters Building at 28th and Cambria Streets.

For full information and particulars apply to Room 796, City Hall.

FRANK H. CAVEN,
Director.

PROPOSAL.

Notice of reception of bids for the erection and construction of a Soldiers' Memorial Building to be erected by the City of Atlantic City on the southside of Pacific Avenue, between States and Maryland Avenues, in said city.

Sealed proposals will be received by the Board of Commissioners of the City of Atlantic City at the Commission Chambers, City Hall, in said City, at a Regular Meeting of said Board to be held on the 6th day of April, 1922.

Plans and specifications may be obtained upon application to S. Hudson Vaughn, Architect, Guarantee Trust Building, Atlantic City, New Jersey, upon payment of deposit.

Separate bids will be received on four (4) sections or groups of the work as follows:

General Construction Work.....Group No. 1
Plumbing and Gas Piping.....Group No. 2
Electric Wiring .....Group No. 3
Heating and Ventilating.....Group No. 4

Each bid must be accompanied by a certified check made payable to the order of Albert Beyer, City Treasurer, as follows:

Group No. 1.....$2,500.00
Group No. 2..... 800.00
Group No. 3..... 500.00
Group No. 4..... 800.00

Checks are to be held as security for the execution of the contract and bonds by the successful bidder. Checks of unsuccessful bidders will be returned after the successful bidder has entered into contract with the bond. Should the successful bidder fail to execute the contract and bond as required, the deposit check will be forfeited to the City.

Each bidder will be required, in addition to the certified check, to furnish with his bid, a Surety Company bidder's bond guaranteeing that the successful bidder will enter into the contracts and bonds required by the City.

All bidders must be thoroughly acquainted with the specifications, the general conditions and other information contained in the plans, specifications and general conditions as outlined by the Architect aforesaid, and must fully comply therewith, irrespective of anything that may appear or fail to appear in this advertisement.

No bids will be received excepting on the form of proposal prepared by the Architect aforesaid.

LOUIS A. STEINBRICKER,
Director of Department of Streets and Public Improvements.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins. Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins. Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts.. Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Mineraloid Flooring Co. ....524 Drexel Bldg., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co.....Bulletin Bldg., Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIRE BRICK.
Fitzgerald, J. J., & Co...2nd and Butler Sts., Phila.

FIREPROOFING.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR PLATES.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.
Fitzgerald, J. J., & Co...2nd and Butler Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

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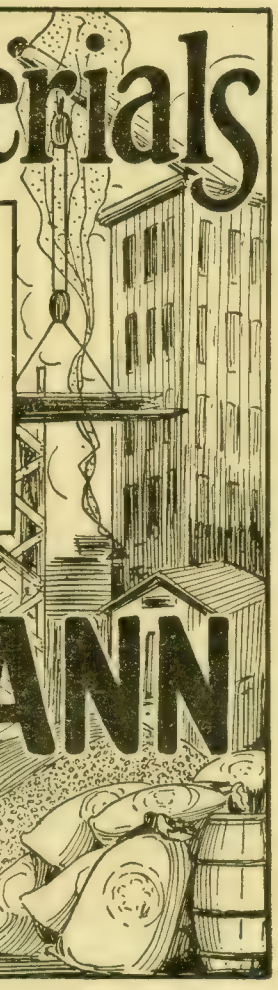
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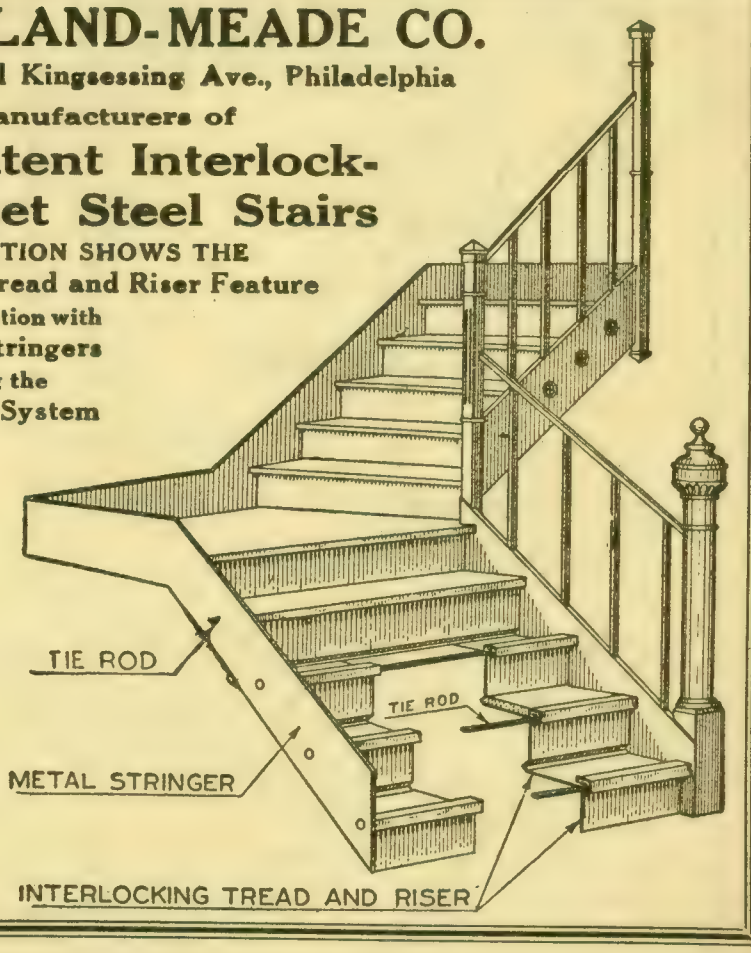
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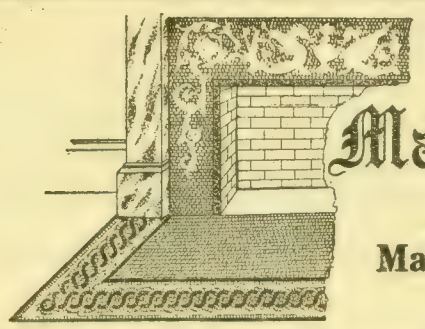
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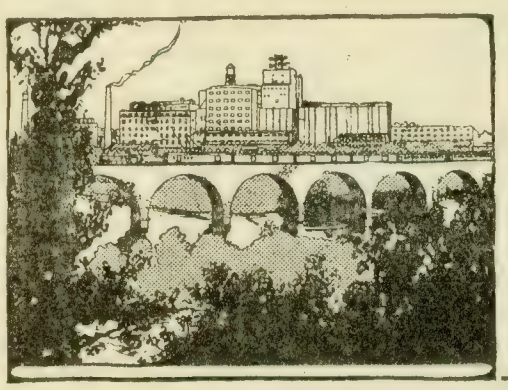
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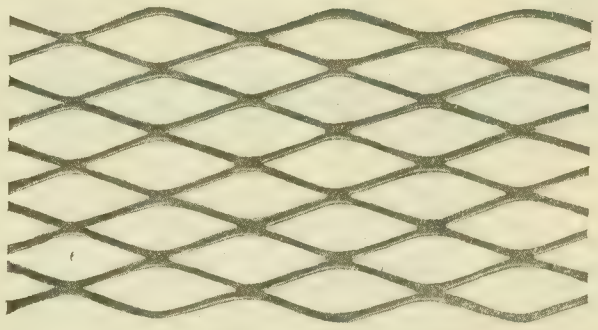
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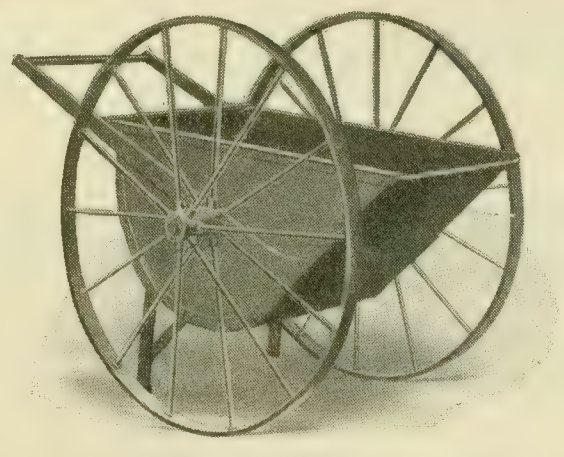
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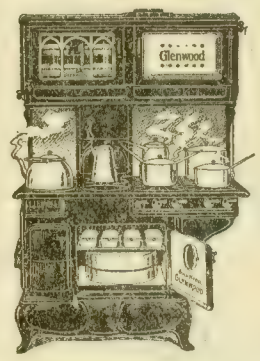
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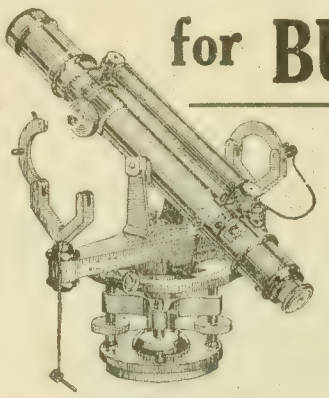
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 13

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March 29, 1922

BUILDERS' GUIDE

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As The Editor Sees It

ARE PRICES RIGHT?

Conditions Discussed With Hoover*

BY FREDERICK L. CRANFORD

Frederick L. Cranford, Inc., Brooklyn, N. Y.

AFTER making that trip out through the West, General Marshall arranged for us to meet at lunch in Wahsington in the middle of November and discuss with Mr. Hoover some of the things that we have found on the trip, and I would like to tell you a little of the talk that we had with him.

First, we stated that it was our belief that it was now desirable to make up a program of necessary economic construction improvements, that the government and people of the United States were carrying a very great burden imposed on us by the war and that the only way to meet that burden was to increase the economic facilities of the United States to help us carry it. We suggested that a national program of hydro-electric development, irrigation, reclamation and railroad terminal development and refinement should be immediately undertaken.

Materials the Main Problem

We had to report that all over the United States, with two exceptions, labor efficiency had come back to its prewar output; that we had asked all over the United States and were very pleased to make another report, that with regard to public work particularly we had gone through quite silently and without much publicity a very great change, that the conditions of dishonesty and incompetency which existed 25 years ago on public work all over the United States had vastly changed, that today our public work was conducted competently and the work was well done and honestly done! that we didn't want to talk about the material situation and the conditions which involved the material manufacturer and distributor in difficulties or to prejudge the situation, but we were able to say (and we believed correctly) that 98 per cent. of the builders and contractors of the United States were doubtful, in fact, were quite sure that the material prices which they were paying for building materials of all kinds were too high, that the prices were not arrived at by economic conditions but that they were unduly influenced by their co-operation among themselves; that we didn't like to make predictions, but we were also afraid that the construction, labor and material manufacturers and distributors were going to take advantage of the first wave of constructive activity to enforce a return to the conditions and prices which obtained in 1919 and 1920.

It was my feeling at the end of that talk that the question of material manufacture and distribution was one of the most difficult problems that we have in the whole United States to face and get the best of; that, whether it is correct or not, our statement of the conditions as we found them with regard to materials is the current public opinion of the United States and that public opinion (that the cost of and distribution of building materials are fixed, not by economic forces, but by avarice) is the main difficulty that we have to face in getting construction started.

Self Regulation Best

The administration at Washington has on many occasions made the statement that business men owe it to themselves to correct the difficulties and the irregularities which exist in their own line of work; that the alternative to that is legislation, regulatory legislation. We have had 25 years of experience of regulatory legislation. Every State and the Nation has attempted to regulate, for instance, our public utilities and our railroads by repressive legislation. That legislation I think we can talk of very frankly. It has produced no constructive result.

We have reached a period in which industry has largely stopped for lack of public confidence. In our particular industry, construction, therefore, it would seem to me as if our obligation was to try and iron out the difficulties that we find now delay beginning the construction necessary to the nation's economic development.

It doesn't make any difference whether the facts support the criticism that is being made of the manufacturers of build-

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ing materials. The fact is that public opinion believes those materials to be improperly priced and the cost of construction unwarranted; and therefore it devolves on us, I think, to take as large a part in trying to correct that situation as lies within our power.

Material Organizations Suspected

With that idea in view, shortly after returning from the western trip, we tried to study out some of the principles that were involved in those difficulties and we found this: That nearly every one of our manufacturers of construction material have a national organization. That national organization was organized for their selfish interest and not in the interest of construction; it was not established with the idea of attempting to stabilize construction except as it might stabilize their own individual work.

It seemed to us that they had made one vital error in that in their national meetings they had held those meetings behind closed doors, for what is done behind a screen usually raises a doubt, in the mind of the man who has to buy that material, as to influences which affected action.

Responsibility on Constructors

Now, take any construction material. Who do the people turn to for advice as to when construction material is at a right figure? They turn to the men who have a knowledge of the previous history of prices in that material. And who are those men? You gentlemen are those men. The 16,000 or 18,000 builders and contractors in the United States are the agents of the public, which the public uses to carry on its construction work; and necessarily, therefore, they turn to you to ask the question, "Is the price right?" And if I gather your answer to that question correctly on our trip, I would say that your answer has been, "The price is not right;" and it is because you have answered that question in that way that we have just gone through a period in which construction in most of its branches has been stagnant.

I have heard it said by not one but a thousand people, and by people in positions of great authority and responsibility —that we are not facing a period of inactivity and idleness; that that period is not dangerous by reason of the activity of radicals, I. W. W.'s anarchists and extreme Socialistics; but that the situation is dangerous by reason of the public opinion that prices have been improperly maintained, that there has been price fixing and that the spirit of selfishness has permeated and invaded nearly all of our lines of business and has produced throughout our people a desire to somehow beat that situation; that this winter in Washington you will witness a tremendous growth in repressive and regulatory legislation.

How to Restore Normalcy?

The President himself has time and again stated that that is not the result that he wants; that he wants to see business itself straighten out its difficulties; that if we don't bring back competition, if we don't bring back normal methods of procedure in our business, we face a very serious and a dangerous situation. I'd like to read just the last paragraph of the letter of Mr. Hoover to this convention:

"I do not believe that there is any service that could be performed in our whole business fabric today that would be of such value as really definite action on the part of your Association."

Opportunity for the A. G. C.

I hardly know how to go on with the subject, it's a pretty big one. This I do want to impress upon you: That you should get in touch with your friends in the distribution and manufacture of building materials. There can be no doubt that they've got to get your confidence, that they've got to show you that the prices they ask for their materials are warranted by the conditions under which they work; and, if they can show you that fact, you will be in a position to change the public opinion of the United States on construction prices.

I was talking to one gentleman here last night who was speaking of a manufacturer of a building material who has made vast profits in the last few years, who takes the attitude that that particular material has a big market and now is his great opportunity, so why should he hesitate to take advantage of that opportunity?

There is only one reason why he should hesitate. If he has a proper regard for the Government under which we live, if he has a desire to see some of the principles that underlie our Government maintained and strengthened, he wants to reverse his position. If, on the contrary, the principle of American business is to get while you can and the devil take the hindmost, we face a very serious situation.

I believe that we individually and joint can do a very great service by demanding to know that the prices of building materials are right and insisting that not great profits but reasonable profits are essential to our national prosperity at this time.—*Constructor.*

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Residence (add. and alt.), 611 West Moyamensing avenue, $3,000. Architect, private plans. Owner, Joseph Swerdloff, on premises. Brick, 2 stories, 11x25 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Stable, Northwest Corner Fifteenth and Haines streets, $3,000. Architect, private plans. Owners, The Northwood Cemetery Co., on premises. Brick, 2 story, 37x28 feet, slag roof, electric light. Owner will build.

Supplies and Construction, Fairmount Park, Philadelphia. Architect, private plans. Owners, Commissioners of Fairmount Park, Alan Carson, civil engineer, 127 City Hall, Philadelphia. Road oils, river wall and public concert building. Owners taking bids due April 4th at 3.15 P. M.

Supplies and Work, Bureau of Water, Philadelphia. Owners, Department of Public Works, Bureau of Water, Frank H. Caven, Director, 216 City Hall, Philadelphia. Furnishing 6-inch, 8-inch and 12-inch cast iron pipe, laying pipe and laying 12-inch cast iron water pipe in state road. Owners taking bids due April 4th at noon. Inquire Room No. 796.

School, Wanamaker, between Media street and Lansdowne avenue. Associate architects, Charles J. Mitchell and J. Frank Clark, 23 South Sixteenth street. Owners, St. Rose of Lima's Roman Catholic Church, Rev. J. M. Bourne. Architects taking bids due on heating, plumbing and electric work, due as soon as possible.

Moving Picture Theatre, Southwest Corner Fortieth and Filbert streets, $150,000. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. **Owner,** Joseph F. Willard, 326 North Fortieth street. Brick, cut stone, concrete, steel and terra cotta, 62x119 feet. Plans in progress.

Manufacturing Building, Camden, N. J. Architects, Ballinger Co., Twelfth and Chestnut streets. Owners, Warren Webster Co., Camden, N. J. Reinforced concrete and steel. Preliminary plans in progress.

Warehouse and Service Station, Sixteenth and Indiana avenue, Philadelphia. Plant engineer, W. D. Price, Chicago, Ill. Owners, International Harvester Co. of America, 216 North Twenty-third street. Brick, concrete and steel, 5 stories and basement, 130x100 feet, and 1 story, 100x64x140 feet, slag and gypsum tile roof, concrete floors, hollow tile, metal lath, safety treads, roof ventilators, waterproofing and dampproofing, hollow metal sash and doors, rolled steel sash, plumbing, electric work (heating, rolled steel sash, rolling steel doors and elevators reserved). Owners taking bids due April 5th at 1 P. M. Turner Const. Co., 1713 Sansom street; Ketcham & McQuade, 1029 Brown street; Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; Sutton & Stephenson, 1317 Washington avenue; W. W. Lindsay Co., Harrison Bldg.; William Steele & Sons, 1600 Arch street; Hughes Foulkrod Co., Commonwealth Building; F. V. Warren, 132 South Seventeenth street; John N. Gill & Co., Otis Building; John R. Wiggins Co., Eighteenth and Cherry streets; White Const. Co., Widener Building; J. S. Rogers Co., Drexel Building, all of Philadelphia; George Dose Eng. Co., 43 West Twenty-seventh st., New York City, and Aberthaw Const. Co., Boston, Mass., are figuring.

Residence, Queen Lane, Germantown, Philadelphia. Architect, Mantle Fielding, 520 Walnut street. Owner, Edward W. Taylor, care of architect. Stone, 2½ stories, 57x30 feet, shingle roof, oak and pine floors, hot water heat, electric light. Architect taking bids due April 1st. William R. Dougherty, 1610 Sansom street; Stokes Brothers, 6723 Musgrave street; William J. Gruhler Co., 219 High street; William C. Wright, 22 Harvey street; Fred. Elvidge, 5522 Germantown avenue, are figuring.

Building (alts. and add.), 3313 North Broad street, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owners, North Philadelphia Realty Co., care of architect. Brick, 1 story and basement, 25x32 feet, slag roof, electric lighting. New plans in progress. Architect will take new bids in two weeks.

Stores, 125-127 South Thirteenth street. Architect, Louis Levi, Real Estate Trust Building. Owners, Millard Dress Shop, on premises. Preliminary plans in progress.

Garages (2), 214 East Mt. Airy avenue, Philadelphia. Architects, Tunis & Genther, Real Estate Trust Building. Owner, Leon Katz, on premises. Brick, 1 story, 16x19 feet, slag roof, concrete floors. Revised plans in progress. Will take bids in a few days.

Warehouse, 412-16 South Delaware avenue. Architects, Hoffman Henon, Inc., Finance Building. Owners, Pennsylvania Warehousing Co., on premises. Brick and steel, 8 stories, 78x120 feet, slag roof, concrete and wood block floors, waterproofing, iron work, floor hardener, Bond, hollow metal doors, copper skylights, rolled steel sash (heating, elevators, lighting and plumbing reserved). Architects taking bids due March 31st. P. M. Sax, Penfield Building; F. G. Stewart, 1619 Sansom street; Turner Const. Co., 1713 Sansom street; W. W. Lindsay, Harrison Building; White Const. Co., Widener Building; Robert E. Lamb Co., 843 North Nineteenth street; John R. Wiggins Co., Eighteenth and Cherry streets; Hughes Foulkrod Co., Commonwealth Building; Pierce Henon Co., Juniper and Pine streets, Philadelphia, and John W. Ferguson Co., 253 Broadway, New York City, are figuring.

Hotel Apartments, Northeast Corner Forty-sixth and Walnut streets. Architect, James S. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owner, Thomas H. Hargest, 501 North Fifty-second street, Philadelphia. Brick, steel, concrete, limestone and terra cotta, 6 stories, 101x125 feet, tile roof, iron partitions, metal lath, passenger elevators, kitchen equipment, steel stairs, copper skylights, rolled steel sash, tile, marble and terrazzo, steam heat, electric light. Architect is taking bids.



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Russian and Turkish Bath, Sixtieth and Locust streets. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Philip Glassman, 6047 Locust street, Philadelphia. Brick, cut stone and steel, 2 stories and balcony, 100x60 feet, slag roof, cement floors, metal lath and ceilings, waterproofing and dampproofing, iron work, bond, kalamein sash and doors, hollow metal skylights, tile, marble and terrazzo, electric work (heating and plumbing reserved). Owner taking bids due March 30th. Smith-Hardican Co., 1606 Cherry street, Philadelphia, are figuring.

Sunday School (add.), Germantown avenue and West Butler street. Architect, George C. Baum, 1500 Arch street, Philadelphia. Owners, St. Paul's Church, care of Wesley DeFrehn, 3824 North Fifteenth street. Brick, 1 story, 22x60 feet ,slag roof, maple floors, steam heat, electric light. Owners taking bids due April 6th. Fesmire Brothers, Huntingdon Valley, Pa., and J. Y. Loux, Fifteenth and Hunting Park avenue, are figuring.

Girard Piers, Nos. 5 and 3, North Delaware River, Philadelphia. Owners, Bureau of Wharves, Docks and Ferries, George F. Sproule, Director, Bourse Building. Brick, limestone and steel, 529x185 feet and 534x185 feet, slag and asphalt roof, cement, asphalt block with granolithic finish, hollow tile, metal lath, truck and cargo elevators, safety treads, dampproofing, iron work, hollow metal sash and doors, rolled steel skylights. Owners taking bids due April 18th at noon. American Bridge Co., Widener Building; Shoemaker Satterthwaite Co., 4 South Fifteenth street; Bethlehem Steel Co., Bethlehem, Pa.; Wark Co., 231 South Broad street; American Dredging Co., Mariner & Merchants' Building; Triest Cont. Co., New York City; McLean Const. Co., Baltimore, Md.; J. E. Brenneman, Commercial Trust Building, and Snare Corp., 1524 Chestnut street, Philadelphia, are figuring.

Residence, 4917, and Garage (add.), rear of 4917, **Store and Apartments (alts. and add.),** 4919 Wayne avenue. Architect, M. A. Bernhard, 721 Walnut street. Owner, Anthony B'Angelo, on premises. Brick,, 2 stories 20x45 feet, brick, 1 story, 60x60 feet, and two story add., 20x30 feet, slag roof, cement and pine floors, hot water heat, electric light, rolled steel sash, metal cornice, plumbing. Architect taking bids. Joseph Cichiny, 10 South Eighteenth street, is figuring.

Junior High Schools (2), Thirteenth and Louden streets, and Fifty-fourth and Warrington avenue. **Elementary School,** Lansdowne avenue and Prentiss street. General construction (plumbing, heating, electric, ventilating and cabinet work separate bids). Hanna School, painting. Weccacoe Annex, fire repairs: Adair and Sheppard Schools, flagpoles. West Philadelphia Girls' High School Annex, Furness School, wire screens. Electric work in Steel, J. H. Webster, Landreth, Claghorn, Kendrick and Hartranft. Owners taking bids due April 6th at noon.

Private Sewer, Eleventh and Wood streets, Philadelphia. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owner, J. J. McLaughlin, Eleventh and Wood streets. Brick, 4-foot sewer, 240 feet long. Architect taking bids due April 3rd. Edwin H. Vare, 1120 Race street; Monaghan & Losse, Inc., 3016 Chestnut street; Robert Lombardi, 601 Lincoln Building; J. Joseph McHugh, 1617 Race street; Ryan Const. Co., Real Estate Trust Building; Higgins & Reilly, Real Estate Trust Building; Robert Higgin, 4642 Lancaster avenue; O'Neill Co., 127 East Mermaid Lane; Joseph Perna, 362 North Sixty-fifth street, and Fred Buckius, 4050 Kensington avenue, are figuring.

Residence, Lincoln Drive and McCallum street. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Bruce McFadden, 1400 Frankford avenue. Stone, 2½ stories, 36x64 feet, slate roof, oak, pine and composition floors, hot water heat, electric light, tile work, iron work. Architect taking bids due March 31st. McNeill Valentine Co., 841 North Broad street; A. C. Shand, Jr., Commercial Trust Building, and Tourison & Tourison, 1310 Arch street, are figuring.

Residence (alts. and add.), 2025 North Twenty-second street, Philadelphia. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, George McElroy, on premises. Brick, 1 story, 12x14 feet, slag roof, pine floors, hot water heat, electric light, bond, iron work. Architect taking bids. Thomas C. Trafford, 1613 Sansom street, is figuring.

Church and Parsonage, Eleventh and Westmoreland streets. Architect, R. M. Harding, 4432 North Nineteenth street. Owners, Free Methodist Church, care of W. J. Laning, chairman, Building Committee, 1203 Sedgley avenue. Brick or cement block, 1 story, 75x46 feet, slag roof, pine floors, metal lath, iron work, hollow metal skylights, electric light. Owners taking bids. F. B. Davis & Son, 240 North Sixteenth street, are figuring.

Independence Hall (repairs to entrance steps). Deposit, $5.00. Architect, John P. B. Sinkler, 1211 Chestnut street. Chain link screen fence, Moylan Park, Twenty-fifth and Diamond streets. Plans from 117 City Hall. Deposit, $5.00. Laying or repairing neuchatel or asphalt pavements, concrete pavements, brushed pebble finish, granolithic finish, copings, curbings, etc., resurfacing walks with Tarvia and pebbles for year of 1922. Inquire Room 117. Owners, Department of Public Works, Bureau of City Property, Frank H. Caven, Director, 216 City Hall, Philadelphia. Owners taking bids due April 4th at noon.

Morgue, Second and Luzerne streets. Architect, P. H. Johnson, 1713 Sansom street. Owners, Department of Public Health, C. L. Furbush, 584 City Hall. Brick, cut stone and steel, 1 story, 47x44 feet, slate roof, cement and granolithic floors, metal lath and weather strips, waterproofing, iron work (plumbing, heating and lighting separate bids). Owners taking bids due April 10th. Frank G. Stewart, 1619 Sansom street, is figuring.

Residence, Queen Lane Manor, Philadelphia. Architect, Laurence Visscher Boyd, Harrison Building. Owner, name withheld. **Brick, 2½ stories, 26x39½ feet,** slate roof, tile work, hot water heat, electric lighting, hardwood and pine floors. Architect taking bids. Charles Johnson, 5701 Boyer street, is figuring.

Loft Building, 250 South Tenth street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, A. Sonnenfeld, 287 South Sixty-third street. Brick, 3 stories, 18x89 feet, slag roof, pine floors, elevator, steam heat, electric light. Owner will build.

Stores (2), Residences (16), Southwest Cor-

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ner Carpenter street and Germantown avenue. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Robert Killough, Wayne avenue and Duval street. Stone and brick, 2 stories, various sizes, slate and slag roof, hot water heat, electric lighting, oak and pine floors, tile work. Owner will build.

Store and Tenement (alts.) ,805 North Fifteenth street, Philadelphia. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owner, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Hot water heat, electric light, plumbing, new partitions, stairways, general alterations. Architect is taking sub-bids due March 30th.

Residence, Southeast Corner Atwood road and Haddington street, and **Residences (26)**, Atwood road and Lansdowne avenue, Philadelphia, $137,500. Architect, private plans. Owners, Marshall Cont. Co., Inc., 1115 Marlyn road, Philadelphia. Brick, 2 stories, 19x32 feet and 18x32 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (4), Residence and Store (1), Bermuda and Duncan streets, $12,500. Architect, private plans. Owner, John E. Kazmurezak, 2385 Orthodox street, Philadelphia. Brick, 2 stories, 16x46 feet, 18x54 feet and 15½x31 feet, 13x15½ feet, slag roof, pine floors, hot water heat. Owner will build.

Residences (8), Walker street, South of Devereaux street, $2,500 each. Architect, private plans. Owner, Andrew Peoples, Bustleton pike and Boulevard, Philadelphia. Brick, 2 stories, 14x31 feet, 7½x9 feet 9 inches, slag roof, yellow pine floors, electric light, hot water heat. Owner will build.

Residences and Stores (3), B and Ruscomb streets, and Ruscomb and Ella streets. **Residences (36)**, B and Rockland, and Ella and Rockland streets, $156,900. Architect, private plans. Owners, Izenberg & Liebman, 3304 Kensington avenue, Philadelphia. Brick, 2 stories, 16x49 feet, 15½x40 feet, and 15½x30 feet, 13x10 feet, slag roof, oak and pine floors, hot water heat. Owners will build.

Residences (2), Yewdall and Woodland avenue, and Conestoga and Woodland avenue. **Residences and Stores (5)**, 5417-19-23-25-27 Woodland avenue, $41,000. Owner, William Klauss, 5715 Ashland avenue, Philadelphia. Brick, 2 stories, 20x52 feet and 16x30 feet, 13x23 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (23), West side Sixteenth street, North of Pike street, $135,000. Architect, private plans. Owner, Henry J. Johnson, Bailey Building, Philadelphia. Brick, 2 stories, 15x30 feet, 12x10 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (4), South side Church lane, West of Magnolia, $6,000 each. Architect, private plans. Owners, Charles Johnson and E. T. Lally, 2032 East Chelten avenue. Brick, 3 stories, 16x50 feet, 12x30 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (4), South side Unruh street, East of Jackson street, $3,600 each. Architect, private plans. Owner, Louis Laib, 6638 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof, oak and pine floors, hot air heat, electric light. Owner will build.

Garage, South side Fortieth street, North of Baring street, $6,500. Architect, private plans. Owner, I. Weinstein, 3202 Columbia avenue, Philadelphia. Brick, 1 story, 60x113 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Store, 1522 Vine street, Philadelphia, $4,000. Architect, private plans. Owner, D. Henwood, 717 South Sixty-third street, Philadelphia. Brick, 2 stories, 17x80 feet, slag roof, yellow pine floors, steam heat, electric light. Owner will build.

Residence, Magnolia street, South of Haines street, $3,000. Architect, private plans. Owner, Joseph Alvaro, 424 East Haines street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (25), East side Akron street, South of Pratt street, $4,000 each. Architect, private plans. Owners, Smith & Schmunk, 800 West Erie avenue, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Apartment (alts. and add.), 2426-28 Ridge avenue, $5,000. Architect, private plans. Owner, I. Cohen, on premises. Brick, 2 stories, 14½x40 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Owner will build.

Residence, South side Solly street, East of D street, Philadelphia, $3,000. Architect, private plans. Owners, A. & J. Raucheiser, 2429 East Clearfield street, Philadelphia. Frame, 2 stories, 26x32 feet, shingle roof, oak and pine floors, hot water heating, electric lighting. Owner will build.

Apartment, 1402 North Sixteenth street, Philadelphia, $3,500. Architect, private plans. Owner, W. S. Barber, on premises. Brick, 2 stories, 8 feet 9 inches x 14 feet, slag roof, yellow pine floors, hot water heat, electric light. Owner will build.

Store (add.), 1001-03 Passyunk avenue, $2,500. Architect, private plans. Owner, M. F. Brino, 635 Kimball street, Philadelphia. Brick, second and third story adds., 16x38 feet, slag roof, yellow pine floors, electric lighting. Owner will build.

Pier No. 84, Porter Street Wharf, South Wharves, Delaware River, Philadelphia. Owners, Bureau of Wharves, Docks and Ferries, Bourse Building. Low bidders: Item No. 1, Fred. Snare Corp., 1524 Chestnut street, $339,000; Hughes-Foulkrod Co., Commonwealth Building, $393,000. Item No. 4: J. S. Rogers, Drexel Building, $419,000; F. M. Harris Co., 1520 Parrish street, $429,192.

Belfield Recreation Centre, Philadelphia. Owners, Bureau of Recreation, Department of Public Welfare. Lowest bidders: Mitchell Houseworth, 2512 North Twenty-seventh street, $35,897; George Dobbin, 1020 South Forty-seventh street, $46,000.

Belfield Playground, Philadelphia. Low bidders: Mitchell Houseworth, 2512 North Twenty-seventh street, $30,917; Carter Paving Co., 641 North Eighteenth street, $32,857.

Disston Playground, Philadelphia. Low bidders: Curtis Brothers, Tacony, Philadelphia, $17,549; Holmesburg Concrete Co., Holmesburg, Philadelphia, $18,500.

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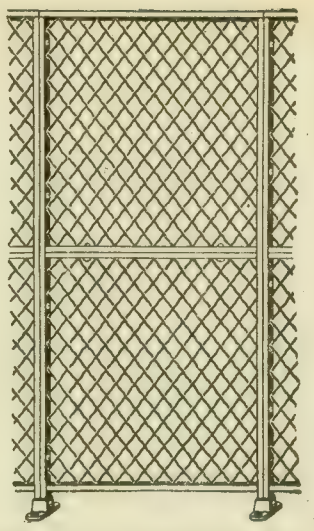
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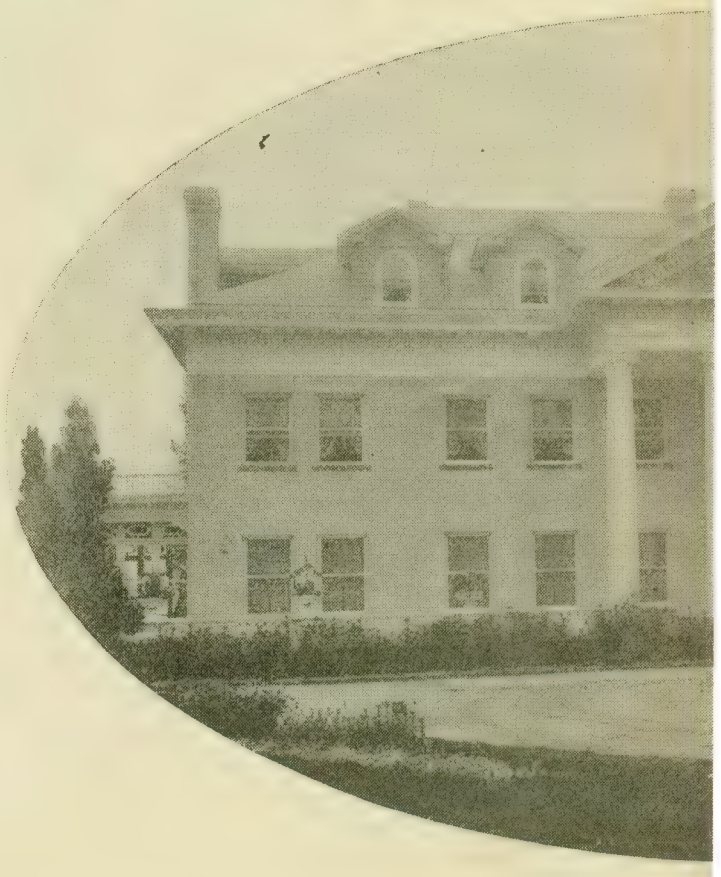
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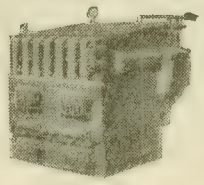
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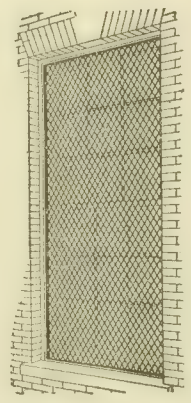
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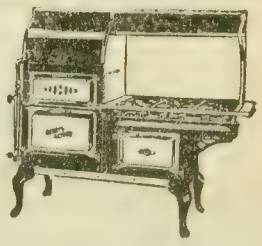
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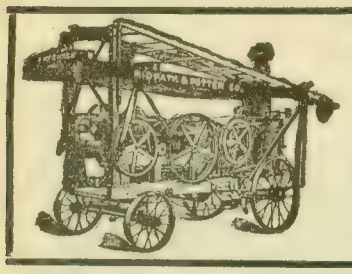


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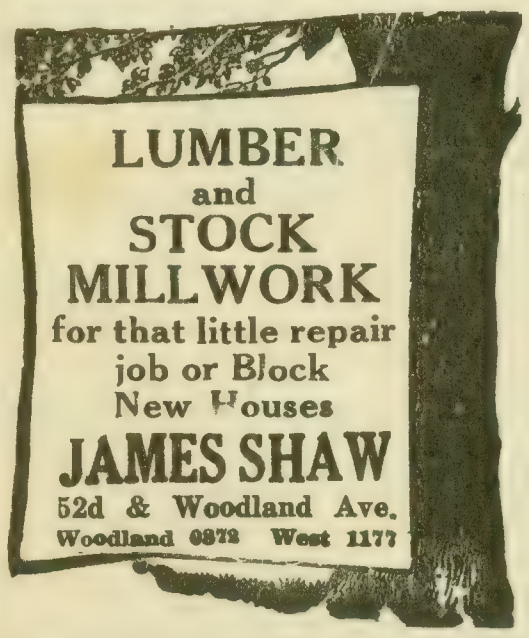
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bungalow, South side Summit street, East of Ridge avenue, $4,000. Architect, private plans. Owner, John Carley, Ridge and Manatawana street, Philadelphia. Frame, 1½ stories, 30x33 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to George M. Robinson, 632 Summitt avenue, Philadelphia.

Stable and Office, South side Paschall avenue, West of Fifty-fourth street, $6,000. Architect, private plans. Owners, Crescent Tea Co., on premises. Brick, 1 and 2 stories, 29x10x42 feet, slag roof, yellow pine floors, electric light. Contract awarded to William F. Koelle & Co., Twenty-sixth and Oxford streets.

Sunday School, Broad and Federal streets. Architect, A. E. Wightman, Heed Building. Owners, Hollond Memorial Presbyterian Church, on premises. Cut stone, brick and steel, 2 stories, slag roof, maple floors, metal lath, iron work, bond, stone work. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street.

Residence (alts.) to Store, Ruth and Somerset streets. Architect, A. E. Wightman, Heed Building. Owner, D. McGuigan, on premises. New bulks, plate glass, carpentry, mill work. Contract awarded to James Connor, 1317 Arch street, Philadelphia.

Bank (alts. and add.), Chelten avenue and Germantown avenue. Architect, A. H. Brockie, 254 South Fifteenth street. Owners, Germantown Trust Co., on premises. Cut stone, brick and steel, 2 stories, 82x47 feet, slate roof, maple, cement and cork floors, metal lath, elevators, roof ventilators, dampproofing, iron work and stairs, rolled steel sash, marble work, steam heat, electric lighting. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Office Building, 731 Sansom street. Architect, A. H. Meuller, 1713 Sansom street, Philadelphia. Owner, Joseph Goodman, on premises. Brick, steel and limestone, terra cotta, 3 stories, 57x22 feet, slag roof, flortyle and cement floors, hot water heat, electric light, tile, terrazzo, rolled steel sash, copper skylights, metal lath, iron work. Contract awarded to Potts Brothers & Cooperson, 129 North Eleventh street.

Stores (5) and Garage, Ridge avenue and Lyceum street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Corson Zeislost, on premises. Brick, 1 story, 114x116 feet, slag roof, cement and maple floors, steam heating, electric lighting. Contract awarded to Brown Const. Co., 105 Levering street, Manayunk.

Store (alts.), Thirteenth and Snyder avenue, $3,500. Architect, private plans. Owners, South Philadelphia Loan Office, on premises. Brick work, carpentry, mill work, sheet metal, painting, electric work, tile and marble work, bond, iron and steel. Contract awarded to Basch & Co., Ruan and Tackawanna streets.

Manufactory, Rising Sun avenue, between Knorr and Rockland streets. Architects, Ballinger Co., Twelfth and Chestnut streets. Owners, Ardross Worsted Co., Bridge and Charles streets. Brick and steel, 2 stories, 159x83 feet, and 1 story, 172x92 feet. Contract awarded to Barclay White Co., 1713 Sansom street.

Residence, School lane, West of Wissahickon avenue, $115,000. Architect, John Molitor, 125 West Chelten avenue, Philadelphia. Owner, Walter E. Knipe, Hancock and Berks streets, Philadelphia. Stone, 3 stories, 90x32 feet, 42x60 feet, slate roof, oak and pine floors, steam heat, electric light, tile work. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Ramp, Thirty-first and Thompson streets, Philadelphia. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owners, Studebaker Sales Co., on premises. Reinforced concrete, iron railing. Contract awarded to L. K. Smith, Forty-first and Chester avenue.

School (add.), Eighteenth and Ritner streets, Philadelphia, $60,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Monica's Roman Catholic Church, on premises. Third floor addition, fire towers and toilet building. Contract awarded to T. J. & J. R. Whelan, Seventeenth and Summer streets.

Residence, Sherwood road, West of Sixty-fourth street, $17,000. Architect, private plans. Owner, W. L. Scott, 823 North Sixty-third street, Philadelphia. Brick, 3 stories, 41x28½ feet and 20x9½ feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to J. F. Bradley, 1121 Fillmore street, Philadelphia.

Shop (repairs), Northwest Corner Twentieth and Allegheny avenue, $10,000. Architect, private plans. Owner, Bernard Lieberman, 2127 Gratz street, Philadelphia. General interior repairs. Contract awarded to Northern Const. Co., Fifth and Fisher's avenue.

Storage Building, 1758-60 North Front street, Philadelphia, $10,000. Architect, private plans. Owner, Isaac G. Ferguson, Front and Palmer streets, Philadelphia. Brick, 2 stories, 36x109 feet, slag roof, steam heat, electric light. Contract awarded to Robert Beatty & Brothers, 2321 East Fletcher street.

Residences (2), 570-72 Dupont street, Philadelphia, $3,500 each. Architect, private plans. Owner, Joseph W. Hyde, 357 Lyceum avenue, Philadelphia. Brick, 2 stories, 14x28 feet and

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10x12 feet, slag roof, hot water heat, electric light, oak and pine floors. Contract awarded to James Stewart, 4554 Manayunk avenue, Philadelphia.

Factory (add.), West side Penrose street, North of Parker street, $6,800. Architect, private plans. Owners, Montgomery Brothers, Inc., 45 South Second street, Philadelphia. Brick, second story add., 27x70 feet, slag roof, maple floors, steam heat, electric light. Contract awarded to Edward Cunningham, 206 North Twenty-second street, Philadelphia.

Residences (9), West side Broad street, South of Chelten avenue, $6,500 each. Architect, private plans. Owner, Sadie Leibowitz, Second and McKean streets, Philadelphia. Brick, 2 stories, 16x35 feet, 13x20 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to Fox Brothers, 4814 North Broad street, Philadelphia.

Garage and Residence (alts.), Southwest Corner Prospect and Summit avenues. Architect, private plans. Owner, Robert H. Bolling, 71 Bethlehem Pike, Philadelphia. General interior alterations. Contract awarded to Melvin H. Grebe, 8438 Germantown avenue.

Storage, 2305-07 North Sydenham street, Philadelphia, $11,000. Architect, private plans. Owner, James Leary, on premises. Brick, 2 stories, 40x85 feet, slag roof, cement floors, electric light. Contract awarded to D. J. McNamee, 1621 North Fifteenth street, Philadelphia.

Laundry (add.), 1440 North Seventh street, Philadelphia, $7,400. Architect, private plans. Owner, Jerome B. Craven, 1442 North Seventh street. Brick, slow burning, 2 stories, 20x58 feet, slag roof, cement and pine floors (heating and lighting reserved). Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Shop and Garage, Northwest Corner Ridge avenue and Martin street, $10,000. Architect, private plans. Owner, Arthur M. Stetter, Ridge avenue and Martin street, Philadelphia. Brick, stone, 2 stories, 50x24 feet, and 1 story, 31½x50 feet, slag roof, cement and yellow pine floors. Contract awarded to William H. Eddleman & Son, 453 Green lane, Roxboro, Philadelphia.

Residence, Southwest Corner Devereaux and Dittman streets, Philadelphia, $7,000. Architect, private plans. Owner, Walter Macht, 2458 Amber street, Philadelphia. Brick, 3 stories, 24x36 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to A. Ahlers, 5913 Dittman street, Philadelphia.

Residence and Store (alts. and add.), 616 South street, Philadelphia, $4,700. Architect, private plans. Owner, Mr. Altman, 624 South street, Philadelphia. Brick, 1 story, 2 stories, 4½x14 feet and 15x24 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Residence and Store (add. and alts.), 1166 East Passyunk avenue, $4,700. Architect, private plans. Owner, A. Nucew, on premises. Brick, 1 story, 14x14 feet, slag roof, yellow pine floors, electric light. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Garage, 875-77 North Forty-fifth street, Philadelphia, $4,000. Architect, private plans. Owner, Thomas Aiken, 767 Lex street, Philadelphia. Brick, 1 story, 30x100 feet, 21x55 feet, slag roof, cement floors. Contract awarded to Harry G. Walters, 412 North Fortieth street, Philadelphia.

Residence, 6535 Stiles street, Philadelphia, $3,500. Architect, private plans. Owner, Luigi Cellencio, 346 Simpson street, Philadelphia. Brick, 2 stories, 14 feet 9 inches x 26 feet, 10x10 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Salvator Real, 6325 Summer street, Philadelphia.

Residence and Store (alts. and add.), 2328 South Seventh street, $3,850. Architect, private plans. Owner, J. Stein, 2131 South Seventh street, Philadelphia. Brick, 1 story, 11x8 feet, slag roof, yellow pine floors, electric light. Contract awarded to M. Agen, 2339 South Eleventh street, Philadelphia.

Residence and Store (add.), 1318 South Fifty-second street, Philadelphia, $3,000. Architect, private plans. Owner, C. J. Cook, on premises. Brick, 1 story, 12x5 feet, slag roof, oak and pine floors. Contract awarded to I. Farbstein, 917 Ritner street, Philadelphia.

Garage (add.), 428-32 Walnut street (rear), Philadelphia, $2,450. Architect, private plans. Owners, United Firemen's Insurance Co., 430 Walnut street, Philadelphia. Brick, 1 story, 26x45 feet, slag roof, cement floors, electric light. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Apartment (add.), 1514 Green street, Philadelphia, $2,000. Architect, private plans. Owner, D. W. Herlinger, on premises. Brick, 3 stories, 13x14 feet, slag roof, pine floors, electric light. Contract awarded to Sutton & Stephenson, 1317 Washington avenue.

Garage, 2412 North Fifty-fourth street, Philadelphia, $2,150. Architect, private plans. Owner, Mrs. Anna C. MacPherson, on premises. Stone, 1 story, 28x20 feet, slate roof, cement floors, hot water heat, electric light. Contract awarded to H. H. Kratz, Parkside and Wynnefield avenues.

Residence and Store (add.), 2814 Germantown avenue, $2,000. Architect, private plans. Owner, J. H. Kranege, on premises. Brick, 2 stories, 16x25 feet, slag roof, yellow pine floors. Contract awarded to E. G. Detwiler, 2901 North Park avenue, Philadelphia.

Asphalt Paving, Philadelphia. Contracts awarded:

Croskey street, Cambria to Indiana avenue, Barber Asphalt Paving Co., Land Title Building, $2,392.

Lippincott street, Twenty-second street to Fox street, Eastern Paving Co., Colonial Trust Building, $5,377.58.

Marston street, Allegheny avenue to Willard street, and Willard street, Twenty-sixth to Marston street. Barber Asphalt Paving Co., Land Title Building, $8,427.28.

Large Street, Harrison to Fillmore street, Barber Asphalt Paving Co., Land Title Building, $1,893.71.

Mascher street, Tabor street to Clarkson street, Mack Paving & Const. Co., Nicetown lane and C street, $7,291.24.

Rockland street, Mascher street to Rising Sun avenue, Barber Asphalt Paving Co., Land Title Building, $6,643.22.

Country Road Improvement, Philadelphia. Cottman street, Philadelphia and Reading Cut-off to Oxford street, awarded to Curtis Brothers, Longshore street, Tacony, $17,437.90.

Oakley street, Princeton street to St. Vincent street; Passmore street, Oakley to Hasbrook street; St. Vincent street, Rising Sun avenue to Shelbourne street, Curtis Brothers, Longshore street, Tacony, $7,111.80.

St. Vincent street, Torresdale avenue to Hagerman street, United Paving Co., Real Estate Trust Building, $2,132.

Sixty-sixth avenue, Broad to Twelfth street, A. J. Henderson, Chew and Price streets, $4,947.20.

Granite Block Paving, Philadelphia. Contracts awarded:

Berks Street, Front to Hope street; Phillips street, Berks to Norris street, Fish-Rutherford Co., Real Estatte Trust Building, $6,380.

Cumberland street, Sixth to Tenth street, United Paving Co., Real Estate Trust Building, $15,789.09.

Ellsworth street, Seventeenth to Eighteenth, and Tasker street, Thirteenth to Broad street, United Paving Co., Real Estate Trust Building, $11,171.69.

Front street, Lehigh to Allegheny avenue, Eastern Paving Co., Colonial Trust Building, $32,253.90.

Norris street, Tenth to Eleventh street, and Tenth street, Columbia avenue to Norris street, Eastern Paving Co., Colonial Trust Building, $21,374.29.

Panama street, Twenty-fourth to Twenty-fifth street, and Sixteenth street, Locust to Lombard sreet, United Paving Co., Real Estate Trust Building, $15,200.

Poplar street, Thirtieth to West College avenue; Twenty-sixth street, Pennsylvania avenue to Poplar street, and Twenty-seventh street, Poplar to Jefferson street, Eastern Paving Co., Colonial Trust Building, $58,552.42.

Stenton avenue, Germantown avenue to East Logan, Eastern Paving Co., Colonial Trust Building, $20,672.74.

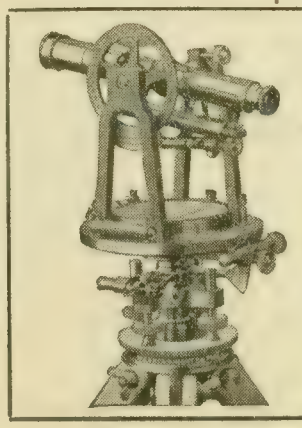
Wissahickon avenue, Hunting Park avenue to Roberts avenue; Twenty-fifth street, Dauphine to York street, Eastern Paving Co., Colonial Trust Building, $23,469.97.

Ninth street, Market to Race, and Tenth street, Market to Arch, United Paving & Const. Co., Real Estate Trust Building, $19,485.02.

Curb and Footway Work. Sixth Highway District. Donato D'Elise, 4842 North Leithgow street.

New Deck, over Spring Garden Street Bridge, over Schuylkill River. Awarded to Brown-King Const. Co., Commercial Trust Building, $21,021.

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PENNSYLVANIA Construction News

Residence, Red Lion, Pa., $12,000. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, Harry McGuigan, Red Lion, Pa. Stucco, 1½ stories. Sketches in progress.

Twin Houses (2), Ambler, Pa., $20,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Victor Potts, Fort Washington, Pa. Stone, hollow tile, 36x40 feet, asbestos shingle roof, yellow pine floors, hot water heat, electric light, marble work, hollow tile, wood lath. Owner will take bids in a week.

Residences (2), Madison avenue, York, Pa. Architect, J. A. Dempwolf, Casatt Building, York, Pa. Owners, Harbolt & Meyers, 328 East Princess street, York, Pa. Brick, 2 stories, 36x48 feet, slate roof ,hardwood floors, steam heat, electric light, tile work. Revised plans in progress.

Bungalow, York, Pa. Architects, Gimmell & Billmeyer, Rossmiller Building, York, Pa. Owner, Jacob Sechrist, York, Pa. Stone, 1½ stories, 45x60 feet, tile roof, hardwood floors, vapor heat, electric light, tile and marble work. Architect ready for bids.

Residence, Stoneboro, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, William S. Myers, Stoneboro, Pa. Frame and stucco, 2½ stories, 37x31 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Plans completed. Owner is taking bids.

Residences (2), Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, J. Moran, Ardmore, Pa. Hollow tile and stucco, 2½ stories, 36x32 feet, shingle roof, pine and hardwood floors, hot water heat, electric light, tile work. Owner is ready for bids.

Residence, Collingdale, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, W. R. Cole, 20 South Marshall street, Philadelphia. Frame, 2½ stories, 33x27 feet, shingle roof, pine floors, hot water heat, electric lighting. Architect will take bids in ten days.

Bungalow, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, E. J. Flynn, 5330 Angora Terrace, Philadelphia. Frame and stucco, 2 stories, 48x36 feet, slate roof, hardwood, pine and composition floors, hot water heat, electric light, tile work, garage in basement. Plans in progress. Will be ready for bids in a few days.

Bank and Post Office Building, Darby, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, First National Bank, Darby, Pa. Brick, cut stone, limestone and steel, 2 stories, 103x38 feet, and 2 stories, 58x54 feet, slag and asphalt roof, cement and cork floors, tile, marble and terrazzo work, metal lath and ceilings, iron stairs and work (heating, electric light and plumbing reserved). Architects taking bids due March 30th. Bowden Const. Co., 1713 Sansom street; Doyle & Co., 1519 Sansom street; William Provost, Jr., Chester, Pa.; Barclay White Co., 1713 Sansom street; J. Myers & Sons, Witherspoon Building; Bowden Const. Co., 1713 Sansom street; F. L. Hoover & Son, 1023 Cherry street; Ketcham & McQuade, 1029 Brown street, and Julius Nelson, Sharon Hill, Pa., are figuring.

Residences, 1, 2, and 3 and 4, Highland Farms, Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owners, Herkness & Stetson, Land Title Building, Philadelphia. Frame and stucco, 2½ stories, 33x30 feet, wing 12x22 feet, stone, 2½ stories, 35x31 feet, frame, 2½ stories, 35x32 feet, and frame and stucco, 2½ stories, 34x32 feet, shingle roof, oak and pine floors, metal lath, hot water heat, electric light, tile work. See next job.

Residences (3), Highland Farms, Abington, Pa., Nos. 6, 7 and 8. Architects, Thomas, Martin & Kirkpatrick, 130 South Fifteenth street. Owners same as previous job. Frame and stucco, 2½ stories, 36x24 feet, 48x36 feet, and 34x25 feet, wing 16x14 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. See next job.

Residences, 9, 10 and 11, Highland Farms, Abington, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners same as previous job. Frame and brick, 2½ stories, 36x34 feet, shingle roof, stone, 2½ stories, 43x23 feet, and stone, 2½ stories, 35x34 feet, slate roof, shingle roof, pine and oak floors, metal lath, hot water heat, electric light, tile and marble work, Bond on 9, 10 and 11. Sizes correspond to houses as numbered. Owners taking bids due April 4th. Specht & Sperry, Heed Building; George F. Payne, 401 South Juniper street; Frank Carman, Jenkintown, Pa.; W. John Stevens, Inc., Wyncote, Pa.; E. Allen Reeves, Inc., Abington, Pa.; E. D. Lever, Abington, Pa.; Roy Randall, Borsham, Pa.; Fesmire Brothers, Bethayres, Pa., are figuring. Owners also taking sub-bids.

Residence, Ogontz, Pa. Architect, Wesley Mullin, Maple Glen, Pa. Owner, Mrs. George B. Parker, Ogontz, Pa. Hollow tile, 3 stories, 42x30 feet, slate roof, oak and pine floors, hollow tile, hot water heat, electric light, tile work. Architect taking bids due March 31st . Roy Randall, Horsham, Pa., figuring.

Printing Establishment, Thirteenth and Walnut streets, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Central Printing & Publishing Co., 329 Market street, Harrisburg, Pa. Brick, steel, fireproof, 3 stories and basement, 56x80 feet, 2 wings, 24x20 feet, slag roof. Architect taking bids due April 3rd. W. E. Bushey, Lemoyne, Pa.; J. Frank Saussaman, Paxtang, Pa.; G. W. Ensign, Inc., Hershey Building, Harrisburg; Charles Lady, 2202 Green street; Delson & Stephenson, 2425 State street; J. Pomraning, Kunkle Building; S. W. Shoemaker & Son, 421 Walnut street, all of Harrisburg, Pa.; Tilghman Moyer Co., 824 Hamilton street, Allentown, Pa.; Austin Co., Bulletin Building, and Hughes-Foulkrod Co., Commonwealth Building, both of Philadelphia, are figuring.

Nurses' Cottage and Cottage No. 4, Laurelton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Board of Managers, Pennsylvania Village for Feeble Minded Women, Dr. Oliver W. H. Glover, acting president, Laurelton, Pa. Stone and steel, 2½ stories, 66x34 feet, and 3½ stories, hollow tile and stucco, 59x40 feet and 92x30 feet, slate roof, cement and pine floors, hollow tile, metal lath, steam heat, electric light, iron work. Owners taking revised bids due April 6th. James V. Bennett & Co., Williamsport, Pa.; Jacob Gehron, Williamsport, Pa.; Pursley & Von Neida, Laurelton, Pa.; H. A. Moore Co., Inc., Milton, Pa., and Ayres Concrete Products Co., Heed Building, Philadelphia, are figuring.

Church, Sunday School and Parsonage, East Stroudsburg, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, East Stroudsburg Methodist Episcopal Church, Rev. J. E. Grauley, East Stroudsburg, Pa. Brick, structural steel, reinforced concrete, 1 story and basement, 82x100 feet, slate roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath, rolled steel skylights, metal window guards, dampproofing, ornamental iron work. Owners taking bids.

Residence and Garage, Pottsville, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owner, George Moll, Pottsville, Pa. Hollow tile and stucco, 1½ and 1 story, slate roof, hardwood and concrete floors, vapor heat, electric light, tile work, gasoline storage system. Owner taking bids due as soon as possible. Clarence Messersmith, 1201 Mahantongo street; Gordon Nagel, Morris Building, and C. E. Kendrick, all of Pottsville, Pa., are figuring.

Residence, Brookline, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Charles Lindgren, Merion, Pa. Stone, hollow tile and stucco, 2½ stories, 26x61 feet, slate roof, hardwood and pine floors, hot water heat, electric lighting. Architects taking bids due March 31st. Robert Dyson, 5656 Carpenter street; Adolph Korn & Co., 1718 Sansom street; J. Howard Roberts, Lansdowne, Pa.; J. V. Speth, Brookline, Pa.; Halberson & Janssen, Brookline, Pa., and Fred. E. Sharpless, 5931 Angora Terrace, are figuring.

Residence, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, W. C. Fleck, Jenkintown, Pa. Stone, 2½ stories, 30x50 feet, slate roof, oak floors, hot water heat, electric light, tile work (plumbing fixtures, lighting fixtures and hardware reserved), tile work. Owner taking bids due April 1st. E. Allen Reeves, Abington, Pa.; E. D. Lever, Abington; A. D. Griffith and Frank W. Carman, Jenkintown; Henry Specht, Willow Grove, Pa.; Roy Randall, Horsham, Pa.; Specht & Sperry, Heed Building, and F. C. Hood, 1613 Chestnut street, Philadelphia, are figuring.

Residence, Cynwyd, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, name withheld. Stone, frame and plaster, 2½ stories, 41x28 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids and sub-bids. E. J. Hedden, Finance Building, is figuring.

Plant (add.), Phoenixville, Pa. Architect, T. A. Stoutenburg, 1509 Champlost avenue, Philadelphia. Owners, Weiland Packing Co., Phoenixville, Pa. Brick and steel, 2 stories and basement, 52x62 feet and 79x29 feet, com-

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position roof, concrete, composition and pine floors, hollow tile, waterproofing, electric light, hollow metal sash, steel doors, iron work. Owner taking bids due April 4th. Barclay White Co., 1713 Sansom street, Philadelphia, is figuring.

Residence, Latham Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Louis Burk, Third and Girard avenue. Stone, 2½ stories, 87x54 feet, slate and tile roof, composition, oak and pine floors, hot water heat, electric light, tile work, copper skylights, iron work. Architects taking bids due March 31st. P. Haibach Cont. Co., Twenty-sixth and Thompson streets; John N. Gill & Son, Otis Building; William R. Dougherty, 1610 Sansom street; Specht & Sperry, Heed Building; Stokes Brothers, 6713 Musgrave street, and E. J. Hedden, Finance Building, Philadelphia, are figuring.

Municipal Building, Upper Darby Township, Pa. Architect, Willis A. Hall, 303 Post Office Building, Sixty-ninth and Market streets. Owners, Upper Darby Township. Architect taking bids, due April 1st at noon. John H. Hutt, 5919 Spruce street; George B. Lockhart, 1524 Shestnut street; Conneen Const. Co., 10 South Eighteenth street; John H. Patterson, 6430 Haverford avenue; Bowden Const. Co., 1713 Sansom street; Clarence L. Terry, Highland Park, Pa.; Friel McLeister, Inc., 2146 East Norris street, and John P. Hallahan, 618 Chestnut street, figuring.

Bakery, Glenside, Pa. Architect, Percy H. Wood, Glenside, Pa. Owner, Ernest F. Gunn, Ogontz, Pa. Brick, 1 story and basement, 24x59 feet, slag roof, electric light, metal ceilings, iron work. Owner taking bids. E. Allen Reeves, Abington, Pa.; Alexander Thompson, Glenside, Pa., and Albert Zellfelder, 151 South Broad street, Philadelphia, are figuring.

Triple Residences (2), Cynwyd, Pa. Architect, J. Bedford Wooley, 1627 Sansom street, Philadelphia. Owner, name withheld. Brick and plaster, 2½ stories, 56x25 feet, shingle roof, oak and pine floors, metal lath, hot water heat, electric light, tile work. Architect taking bids due April 5th. C. C. Edelman, 1627 Sansom street, is figuring.

Bungalow, Jenkintown, Pa. Architect, private plans. Owner, Walter M. Staake, Wyncote, Pa. Frame and stucco, 1½ stories, 36x47 feet, slate roof, pine floors, hot water heat (plumbing, heating and electric work reserved). Owner taking bids due as soon as possible. E. Allen Reeves, Abington; Cleveland Yerger, 1337 Fracker street, Oak Lane; Hugh Hazlett & Son, 1703 North Twentieth street, and Charles T. Clarke, 3639 Germantown avenue, figuring.

Residence, Elkins Park, Pa. Architect, private plans. Owner, W. P. Jendryk, Jenkintown, Pa. Frame and stucco, 2½ stories, 20x35 feet, shingle roof, oak floors, hot water heat, electric light. E. Allen Reeves, Abington, figuring.

Supplies, Borough of Lansdowne, Pa. Owners, Borough of Lansdowne, John W. Davis, secretary, 107 East Greenwood avenue; Frank B. Titus, Borough Manager, Lansdowne, Pa. Manhole covers, inlet covers, grates, tarvia, oils, asphalt, amesite, screenings, cement, gravel and sand, shale brick, rough hard brick, terra cotta sewer pipe. Owners taking bids due April 13th at 8 P. M. Address Borough Manager for information.

Store and Residence, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown Trust Building, JeJnkintown, Pa. Owner, Morris Goldberg, Jenkintown, Pa. Brick, 3 stories, 25x165 feet, slag roof, oak and maple floors, vapor heat, electric light, tile work. Architect ready for bids.

Home and Power House, Newtown Square, Pa. Architect, Clarence W. Brazer, Chester, Pa. Owners, Dunwood Home, Newtown Square, Pa. Stone, brick and steel, 2½ stories, 140x80 feet, and wing 77x50 feet, and 1 story, 44x37 feet, slate and tile roof, cement and pine floors, hollow tile, metal lath, dumb waiters, waterproofing and dampproofing, iron stairs and work, bond, fire and kalamein doors, tile and marble work, electric work. Architect taking bids due April 7th. Barclay White Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street, Philadelphia, and Chester Const. & Cont. Co., Chester, Pa.; Cramp & Co., Denckla Building, Philadelphia; John R. Wiggins & Co., Eighteenth and Cherry streets; R. C. Ballinger Co., 925 Walnut street; F. L. Hoover & Son, 1023 Cherry street; Irwin & Leighton, 126 North Twelfth street, and Northeastern Const. Co., Commercial Trust Building; P. H. Kelly Cont. Co., 1713 Sansom street, and William Provost, Jr., Chester, Pa., figuring.

Church, Brockton, Schuylkill County, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owners, St. Bartholomew's Roman Cathtolic Church, Rev. John Fink, on premises. Stone, 1 story and basement, 52x100 feet, composition roof and floors, stone foundations, vacuum vapor heat, electric light, metal lath. Revised plans in progress.

Mauseleums (980), Twenty-seventh and Wennersville pike, Allentown, Pa. Architect, H. L. Anderson, Perkins Bldg., Allentown, Pa. Engineer, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owners, Grand View Cemetery Co., care of Fred. H. Horlacher, 311 Gordon street, Allentown, Pa. Marble, bronze and concrete, 10x10 feet each. Plans in progress.

Residence (alts. and add.), Titusville, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, John H. Scheide, Titusville, Pa. Brick and concrete, 1½ story add., 20x35 feet, electric work, plumbing. Architect will be ready for bids in three weeks.

Sunday School (add.), Chambersburg, Pa., $15,000. Architect, Horace G. Kilmer, Chambersburg, Pa. Owners, Central Presbyterian Church, Chambersburg, Pa. Brick, electric light. Too early for details.

Garage, Chambersburg, Pa. Architect, Horace G. Kilmer, Chambersburg, Pa. Owners, Bream-Buick Motor Co., Chambersburg, Pa. Brick and tile, 1 story, 36½x250 feet, demolition, slag roof, concrete floors, electric light, hollow tile, roof ventilators, skylights, floor hardener. Plans in progress.

Stre Front and Alterations, Chambersburg, Pa. Architect, Horace G. Kilmer, Chambersburg, Pa. Owners, William H. Ludwig, Chambersburg, Pa. Plans in progress.

Hotel (alts.), Chester, Pa. Architect, William Woodburn Potter, Real Estate Trust Building. Owner, John G. Pappas, Chester, Pa. General alterations, new partitions, new floors, tile and mosaic work (heating and electric work reserved. Plans in progress.

Packing Plant (add.), Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Croninger Packing Co., Shamokin, Pa. Reinforced concrete and steel, 5 stories, 40x75 feet, concrete floors and roof. Plans in progress.

Rectory, Stratford, Pa. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owners, Our Lady of the Assumption Italian Church, care of Rev. Antonio Scialabba, Stratford, Pa. Stone, 2½ stories, 34x40 feet, slate roof, hardwood floors, hot water heat, electric light. Plans in progress. Architect will take bids in about two weeks.

Residence, Mt. Carmel, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, S. I. Junkus, Mt. Carmel, Pa. Brick and frame, 2 stories and basement, 23x41 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress. Will take bids in a few days.

Dormitory Building, State College, Pa. Architects, Day & Klauder, 1416 Chestnut street, Philadelphia. Owners, Pennsylvania State College, care of S. K. Hoffstetter, State College. Brick and stone, 3 stories. Preliminary plans in progress.

Tubercular Hospital, Luzerne County, near Hazleton, Pa., $400,000. Owners, State Department of Health, Harrisburg, Pa. Brick, concrete, steel, 3 stories. Plans in progress.

Store (add.), Market and Dewberry streets, Harrisburg, Pa. Architect, not yet selected. Owners, Bowman Co., care of J. K. Bowman, on premises. Fireproof, 210x80 feet. Work contemplated.

Residence, Wyomissing, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owner, John Light, Reading, Pa. Too early for details.

Church, Mountainville, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Trinity Memorial Lutheran Church, care of architect. Brick, 1 story and basement, 39x90 feet, slag roof, hardwood floors, hollow tile, vapor heat, electric light, structural metal work, dampproofing. Plans in progress.

Residences (6), Wyomissing, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Textile Machine Works, Wyomissing, Pa. Brick, 2½ stories, 21x30 feet each, tin roof, pine floors, hot air heat, electric light. Plans in progress.

Boiler House, Sunbury, Pa. Architect, W. H. Dechant, 632 Washington street, Reading, Pa. Owners, Sunbury Water Co., W. R. Rohrback, Sunbury, Pa. Brick, 1 story, 50x50 feet, slag roof, concrete floors. Plans in progress.

Church, Spring City, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, First Methodist Episcopal Church, Spring City, Pa. Stone, 1 story and basement, 58x77 feet, slate roof, hardwood floors, electric light. Owner will take bids in a few weeks.

Town Hall and Moving Picture Theatre and Fire Station, Richland, Pa. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Richland Fire Co., J. A. Fisher, secretary, on premises. Brick, 2 stories, 50x125 feet, asbestos slate roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath. Architect ready for bids.

Church, Fourth and Windsor streets, Reading, Pa., $80,000. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Lutheran Church of Holy Spirit, Rev. C. G. Beck, 421 Windsor street, Reading, Pa. Brick, 1 story and basement and gallery, 50x100 feet, stone trim, slate roof, maple floors, vapor heat, electric light, metal lath, rolled steel sash. Owner ready for bids.

Apartments (2), Overbrook, Pa. Architect, J. W. Reppenhagen, 23 South Fifty-second street. Owner, Edward F. Gorman, care of architect. Brick, 2 stories and basement, 27x61 feet and 20x58 feet, slag roof, pine floors, hollow tile, hot water heat, electric lighting, iron work. Architect taking sub-bids due March 30th.

Apartment House, Haverford, Pa. Architect, private plans. Owner, John H. Gallagher, 201 Penfield Building, Philadelphia. Brick, concrete and steel. Owner is ready for sub-bids.

School (add.), Conshohocken, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street. Owners, Board of Education, Conshohocken, Pa. Auditorium and gymnasium add. Owners taking bids.

Knitting Mill, Auburn, Pa. Architect, W. D. Hill, Pottsville, Pa. Owner, Jacob Boltz, 317 North Ninth street, Pottsville, Pa. Brick, 56x90 feet. Architect taking sub-bids.

Residences (4 pairs), Brookline, Pa. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Frank Williams, 6250 Larchwood avenue, Philadelphia. Brick, frame and stucco, 2 stories, 32x40 feet, slate roof, hardwood floors, hot water heat, electric lighting. Owner is taking sub-bids.

Pennsylvania Contracts Awarded

Store Building, Ambler, Pa., $5,350. Architect, Wesley Mullen, Maple Glen, Pa. Owner, A. M. Houpt, Ambler, Pa. Brick, 2 stories, 27½x57 feet, canvas and slag roof, pine floors. Contract awarded to Roy Randall, Horsham, Pa.

School, Salisbury, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, School Board, care of W. Weitknecht, Bethlehem, Pa. Brick, cast stone, 2 stories, 89x51 feet, built-up roof, steam heat. Contract awarded to W. H. Gangwere, A. N. B. Building, Allentown, Pa.

Y. M. C. A. Building, Williamsport, Pa., $343,000. Architects, Thomas, Martin & Kirkpatrick, Otis Bldg., Phila. Owners, Y. M. C. A., Harry D. Brown, Chairman, Building Committee, Williamsport, Pa. Brick, cut stone, steel and granite, 4 stories, 97x106 feet, Barrett roof, cement and composition floors, hollow tile, metal lath, safety treads, waterproofing, iron work, demolition, vacuum heat, electric light, tile and marble work, rolled steel sash, copper skylights, hollow metal doors, bond, iron work. Contract awarded to Turner Const. Co., 1713 Sansom street.

Residence, West Reading, Pa., $15,000. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, G. H. Rader, Reading Abattoir Co., Reading, Pa. Brick, 2½ stories, 30x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Adam Spatz, Wernersville, Pa.

Church, Delphi, Pa., $10,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Mission Church, Archdiocese of Philadelphia, Eighteenth and Race streets. Hollow tile and plaster, 1 story, 50x100 feet, tin roof, pine floors, electric lighting (heating reserved). Contract awarded to Frank Shuler, Norristown, Pa.

Residence, Penfield, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Josef Cisar, 5853 Rodman street. Frame and stucco, 2½ stories, 40x24 feet and 17x14 feet, shingle roof, oak and pine floors, metal lath, bond, tile work, electric work. Contract awarded to Robert G. Ward, Penfield, Pa.

Residence and Garage, Springfield, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owners, H. J. Pelstring, 4427 Walnut street. Hollow tile and stucco, 2½ stories, 25x22 feet, wing 24x34 feet, garage, 1½ stories, 23x21 feet, shingle roof, oak and pine floors, hot water heat, electric light, bond, iron work. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

Residence, Rose lane, Haverford, Pa. Architect, W. W. Potter, Real Estate Trust Building, Philadelphia. Owner, R. W. Wigton, Haverford, Pa. Hollow tile, steel and plaster, 2½ stories, 87x20 feet, wing 18x40 feet, canvas and slate roof, oak and pine floors, metal lath, roadway, heating, res. electric light, tile work, iron work. Contract awarded to Leroy K. Smith, Forty-first and Chester avenue.

Twin Residence, Old York Road Hills, Jenkintown, Pa. Architect, Herbert Eves, Jenkintown, Pa. Owners, Herbert & Schuyler Eves, 114 Walnut street, Jenkintown, Pa. Brick, frame, 2 stories, 20 feet 5 inches x 27 feet 10 inches, 10x14 feet, shingle roof, pine floors, hot air heat, electric light, tile work. Contract awarded to Roy Randall, Horsham, Pa.

Store and Apartment Building, Chambersburg, Pa., $16,000. Architect, Horace G. Kilmer, Chambersburg, Pa. Owner, H. F. Rodenhauer, Chambersburg, Pa. Brick and tile, 2 stories, 28x56 feet, slag roof, wood floors, vapor heat, electric light, kalamein doors, roof ventilators, hollow tile, iron stairs. Contract awarded to C. E. Cump, Chambersburg, Pa.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, State Capitol, Harrisburg, Pa.

Somerset County, Route 51, Summit and Elk Townships, $251,914.08. Contract awarded to M. F. McCabe, Fairmont, W. Va.

Allegheny and Westmoreland Counties, Route 120, North Versailles Township, $92,477.79. Contract awarded to Dunn & Ryan, Pittsburgh, Pa.

Clarion County, Route 237, Red Bank Township, $95,107.04. Contract awarded to John Battenfield Sons Co., Millvale, Pa.

Perry and Juniata Counties, Route 195, Susquehanna Township. Contract awarded to Trinidad Asphalt Paving Co., Clarksville, Pa.

Road Work, Pennsylvania. Owners, State Highway Department, State Capitol Building, Harrisburg.

Cumberland County, R-34, Lemoyne and Camp Hill Townships, $171,215.10. Contract awarded to Souder Const. Co., Lancaster, Pa.

Montgomery County, R-178, Lower Gwynedd, Whitpain and Norriton Townships, $203,639. Contract awarded to Everton A. Corson, Ocean City, N. J.

New Jersey Construction News

Residence and Garage, Bellevue avenue, near Parkside, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mr. C. Richard Waller, 493 Chambers street, Trenton, N. J. Brick, 3 stories, 26x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect taking bids due April 3rd at 2 P. M. William Hicks, 1402 West State street; S. W. Mather & Sons, Greenwood and Canal streets; J. H. Morris, 211 North Montgomery street; Burton & Burton, American Mechanics' Bank Building; Thomas Day, 1109 Greenwood avenue; Edward La Rue, 53 South Hermitage avenue, and H. J. & E. Barnett, Johnston avenue, Trenton, are figuring.

Tea House, Lakewood, N. J. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, name withheld. Hollow tile and plaster, 2 stories, 22x50 feet, slate or J-M shingle roof, pine floors, hot air heat, electric light. Plans in progress.

Residence and Garage, Lakewood, N. J. Architect, William Woodburn Potter, Real Estate Trust Building. Owner, Miss Agnes H. Davis, Lakewood, N. J. Hollow tile and stucco, 2½ stories, 50x40 feet, slate or J-M shingle roof, pine floors, electric light (heating reserved). C. C. Newman, Lakewood, N. J., is taking bids.

Schools (2), Runnemede and Lawnside, N. J. Architect, J. L. Coneys, Drexel Building, Philadelphia. Owners, Board of Education of Centre Township, Camden County, N. J. Brick and cut stone, 2 stories, 59x38 feet, and 2 stories, 25x39 feet, slate roof, maple floors, metal lath, iron work, fire doors (plumbing, ventilating, heating and lighting separate bids). Owners taking bids due April 7th. Wills Bill Co., 1706 Sansom street, Philadelphia William Linker Co., 735 Cherry street; Monaghan & Losse, 3016 Chestnut street; John P. Hallahan, 612 Chestnut street; MitchellHouseworth Co., 2512 North Twenty-seventh street, all of Philadelphia; George Bachman, 19 North Thirtieth street; Albert Voegtlin, 223 North Forty-first street, Camden, N. J.; George W. Shaner, Palmyra, N. J., and Fred. Lange, Audubon, N. J., are figuring.

Bank, Blackwood, N. J. Architect, Thomas Stephens, Temple Building, Camden, N. J. Owners, Blackwood Bank, care of architect. Brick and stone, 1 story, 34x44 feet, slag roof, marble floors, steam heat, electric light, marble work, bank fixtures, vault. Low bidder: Wills, Bill & Co., 1706 Sansom street, Philadelphia, $27,500.

Detention House, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Camden County Board of Freeholders, Charles F. Wise, Chairman, Camden County Court House, Camden, N. J. Brick, stone, 3 stories, 16x16 feet, vapor heat, electric light, tile work, fireproofing, metal lath, reinforced concrete floors. Owners ready for bids due April 7th at 10.30 A. M.

State Hospital (add.), Trenton, N. J., $225,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of Warden Natchley, on premises. Steel, 1 and 2 stories, irregular size, slate roof, concrete and hardwood floors, electric light, tile and marble work, hollow tile, metal lath, freight elevators, skylights, fire doors, steel sash, roof ventilators. Architects ready for bids.

Armory, Passaic, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owners, State of New Jersey, Quartermaster's Department, Trenton. Brick, terra cotta, 1 story and basement, 125x70 feet, slag roof, maple floors (heating, plumbing and electric work reserved), tile work. Department of Institutions and Agencies, Capitol Building, Trenton, taking bids due April 5th. P. H. Kelly Const. Co., 1713 Sansom street; Nicholas Nardy, 1726 Sansom street, Philadelphia; U. S. Const. Co., 2201 Arctic avenue, Atlantic City, N. J.; George DeKimpe Co., 141 Summit avenue, West Hoboken, N. J.; J. J. O'Leary Co., Passaic, N. J.; C. Y. Barlow, Brook street, Trenton, N. J.; Charles J. Smith, Morristown, N. J.; I. Aronin, Grand Central Terminal Building; Reynolds & Clark, 105 West Fortieth street, New York, are figuring.

Residence and Garage, Ventnor City, N. J., $324,771.34. Architect, Newton Flounders, Media, Pa. Owner, care of architect. Concrete, brick, hollow tile, 3 stories, 35½x53 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, iron work. Architect taking bids due March 31st. J. B. Flounders, Media, Pa., figuring.

School, Fairton, Cumberlond County, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Fairfield Township, care of Paul Trenchard, Fairton, N. J. Brick, 1 story and basement, 5 rooms, slate roof, pine floors, steam heat, electric light, hollow tile, metal lath. Owners taking bids due April 3rd. H. H. Hankin & Brothers, Bridgeton, N. J., figuring.

Moving Picture Theatre and Pier, Schellenger avenue, Wildwood, N. J., $750,000. Architect and engineer, D. E. Williams, 15 William street, New York City. Owners, New Jersey Seashore Co., W. S. Darnell, president, 432 Market street, Camden, N. J. Wood piles, steel and concrete, 1 story, 200x750 feet. Architect ready for bids.

Hosiery Mill, Blackwood, N. J. Architect, M. Ward Easby, 1814 Chestnut street. Owner, Cambria Silk Hosiery Co., care of Louis Webber, Indiana avenue and A street, Philadelphia. Brick, slow burning, 1 story, slag roof, pine floors. Work contemplated.

New Jersey Contracts Awarded

Underground Comfort Station, South Plaza, Camden, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Camden County Board of Freeholders, Court House, Camden, N. J. Brick, steel and cut stone, irregular size, concrete roof, cement floors, metal lath, iron work, bond, marble and terrazzo. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia, $26,095. Electric work to Bornstein Co., 930 Broadway, Camden, $650. Plumbing, W. J. Kelly, 675 Ferry avenue, Camden, $12,470. Heating, Deckman Plumbing & Heating Co., 23 Broadway, Camden, $950.

Service Station (alts. and add.), Haddon and Carmen avenues, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Studebaker Sales Co., care of architect. Brick, steel, concrete, 2 stories, slag roof, concrete floors, steam heat, electric light, freight elevators, skylights, fire doors. Contract awarded to W. Roles, East Camden, N. J.

Apartment, Sea Isle City, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, A. J. Brady, 820 North Sixth street, Camden, N. J. Frame, 2 stories, 30x30 feet ,shingle roof, pine floors, electric light. Contract awarded to A. R. Sullivan, 547 Grant street, Camden, N. J.

Residence and Garage, Westfield avenue, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, David Rise, 522 Market street, Camden, N. J. Timber, 1½ stories, 28x50 feet, shingle roof, hardwood floors. Contract awarded to W. H. Fern, Camden, N. J.

Residence, Merchantville, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, W. E. Winner, on premises. Hollow tile and stucco, 2½ stories, 26x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to George W. Shaner & Son, Palmyra, N. J.

Garage, 110-116 North Virginia avenue, Atlantic City, N. J. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owners, Union Transfer Co., 1004 Spring Garden street, Philadelphia. Brick and hollow tile, 1 story, 105x165 feet, wing 45x55 feet, slag roof, concrete floors, steam heat, electric lighting, steel and concrete work. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia.

Hall, Store and Apartment, Pleasantville, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owners, Junior Order American Mechanics, Clarence Dougherty, secretary, on premises. Brick, 2 stories, 40x120 feet, composition roof, pine and concrete floors, hot water heat, electric light, tile and marble work, roof ventilators, metal ceilings. Contract awarded to Clarence Dougherty, Pleasantville, N. J.

Apartments (2), Newport avenue, Ventnor, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, I. Spheer, Ventnor, N. J. Brick, 2 stories, 22x50 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light. Contract awarded to J. V. Mathis & Son, Guarantee Trust Building, Atlantic City, N. J.

Residence, Ventnor, N. J. Architect, private plans. Owner, John Gallagher, care of builders. Hollow tile and stucco, 3 stories, 35x58 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work, hollow tile, ornamental iron work. Contract awarded to J. Vaughn Mathis & Son, Guarantee Trust Building, Atlantic City, N. J.

Stores and Apartment, location withheld. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Coravella Brothers, care of architects. Brick, 2 stories, 65x100 feet, slag roof, pine floors, hot air heat, electric light, metal lath, plate glass. Contract awarded to H. C. Lichman, Haddonfield, N. J.

Office and Apartment (alts. and add.), 2623 Westfield avenue. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Mr. Leo Todd, care of architects. General interior alterations. Contract awarded to W. H. Fern, Camden, N. J.

Pavilion, Clementon Park, N. J. Architects, Lachman & Murphy, Drexel Building. Owner, William N. Starr, care of architect. Frame, 50x80 feet, shingle roof, pine floors, electric light. Contract awarded to Charles Seybold & Son, Clementon, N, J.

Interior Storage Room, Cont. No. 4580, Lakehurst, N. J. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Hollow tile, concrete fill on metal lath, 27x500 feet, 13 feet high, concrete floors, steam heat, metal clad doors, electric light. Contract awarded to Charles W. Gilpin, Harrison Building, $19,295.

Residence (alts.), River Bank, Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Mrs. Lucy Dickson and Mrs. Pearl Lambirth, Riverton, N. J. General interior changes to apartments, hot water heat, electric light, tile work, plumbing. Contract awarded to George W. Shaner, Palmyra, N. J.

Court House (alts.), Camden, N. J. Architects, Rankin, Kellogg & Crane, 1012 Walnut street. Owners, Camden County Board of Freeholders, Court House, Camden. Changes in offices, tile roof, repointing terra cotta. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia. Electric, J. F. Buchanan Co., 1719 Chestnut street, Philadelphia.

Bank (add.), Camden, N. J. Architect, H. A. MacComb, Merchantville, N. J. Owners, Camden National Bank, Camden, N. J. Brick, granite and terra cotta, 1 story, 70x16 feet, slag roof, maple floors, roof ventilators, steam heating, electric lighting, marble work, iron work. Contract awarded to James W. Draper, Camden, N. J.

Garage, Atlantic City, N. J. Architect, Charles J. Mitchell, 129 South Fifth street, Philadelphia. Owners, Union Transfer Co., 1004 Spring Garden street, Philadelphia. Brick, terra cotta, 1 story, 103x140 feet, wing 150x50 feet, slag roof, cement and pine floors. Contract for steel work awarded to McClintic-Marshall Co., Morris Building, Philadelphia. Heating and plumbing awarded to Lewis J. Sommer & Son, 2436 Brown street, Philadelphia. Electric work awarded to John J. Henry, 2422 Mountain street, Philadelphia.

Miscellaneous Construction News

Church, Rising Sun, Md. Architect, Norman L. Hulme, 1524 Chestnut street, Philadelphia. Owners, Methodist Episcopal Church, Rising Sun, Md. Brick, 1 story. Architect taking bids due March 30th at 1 P. M. W. Lewis Ryan, Rising Sun, Md.; George S. Charles & Son, 701 Tatnall street; Smyth Const. Co., Joseph E. Healey & Son, all of Wilmington, Del.; Brown Brothers and E. W. Gibson & Son, Oxford, Pa., and J. Clifford Willis, Newark, Del., are figuring.

Residence (alts. and add.), Hancock, Md. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, C. H. Locher, care of architect. Stone, 2 stories, irregular size, tin roof, hardwood floors, hot water heat, electric light, plate glass. Plans in progress.

Church, Highland Park, Baltimore, Md. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Prince of Peace Protestant Episcopal Church, Highland Park, Baltimore, Md. Stone, 1 and 3 storiese. Preliminary plans in progress.

Factory, Rodgersville, Tenn. Architects, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Kitzmiller & Kenner, Rodgersville, Tenn., care of Mr. Kitzmiller, Reading, Pa. Brick, concrete, structural steel, 1 story, 65x153 feet, composition roof, wood floors (heating, plumbing and electric work reserved), rolled steel sash, steel metal work. Owners will build.

Proposals

SEALED PROPOSALS

Notice is hereby given that sealed bids will be received by Maurice B. Rudderow, Chairman of the Detention Home Committee of the Board of Chosen Freeholders of the County of Camden, and opened and read in public on Friday, April 7, 1922, at 10.30 o'clock A. M., at a public hearing of said Committee, to be held in the Freeholders' room in the Court House, Camden, N. J., for the alteration of property No. 422 North Second Street, Camden, N. J., for the purpose of a Detention Home, in accordance with the plans and specifications therefore as revised, on file in the office of the Clerk of the Board and on view at the offices of Benjamin Howell Lackey and Joseph Norman Hettel, architects, No. 5 Hudson Street, Camden, N. J.

Bids must be enclosed in sealed envelopes bearing the name and address of bidder and the words, "Bid on Detention Home Alterations," and addressed to Maurice B. Rudderow, Chairman, Court House, Camden, N. J.

Each bid must be accompanied by a certified check in a sum not less than ten per cent. of the bid submitted.

A surety bond will be required in full amount of the contract for the proper completion of the work, and the bidder shall also enclose in his bid a bid-certificate from a surety company.

The Board of Chosen Freeholders reserves the right to reject any and all bids.

Dated March 23, 1922.

Maurice B. Rudderow,
Chairman, Detention Home Committee.

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for April 1, 1922.

Editor, H. L. Sharpe.

Managing Editor, none.

Business Manager, Louis S. DeLone.

Publishers, Building News Publishing Co., Perry Building, Philadelphia.

Owners, Louis S. DeLone, 6419 Drexel road, Philadelphia; Samuel R. McDowell, Narberth, Pa.

Known bondholders, mortgages and other security holders holding one per cent. or more of total amount of bonds, mortgages or other securities, none.

(Signed)

Building News Publishing Co.,
Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 15th day of March, 1922.

Edward J. Toole, Notary Public.
(My commission expires January 21, 1925.)

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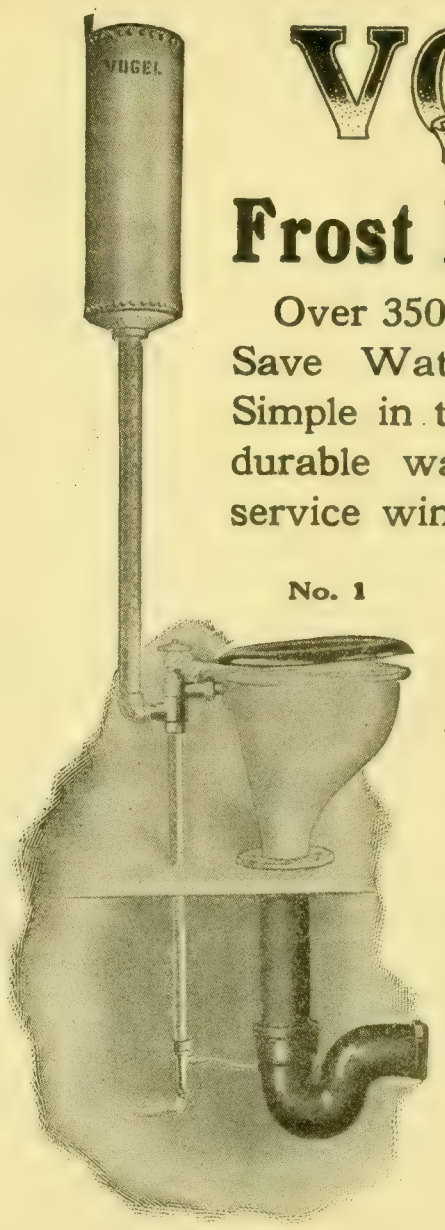
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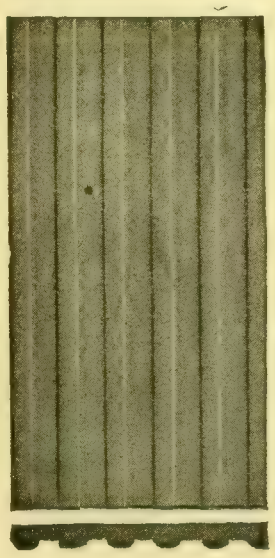
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVII, No. 14
April 5, 1922

Issued Weekly in the Interests or Architects, Structural Engineers, Contractors and the Material and Equipment Trades

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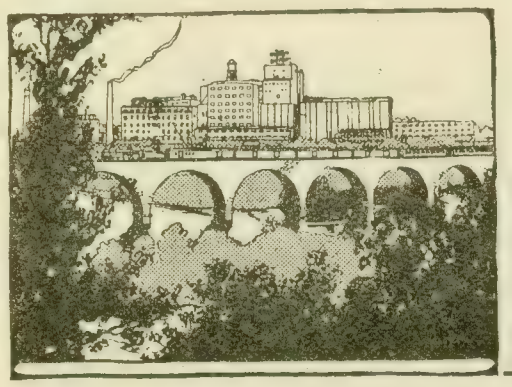
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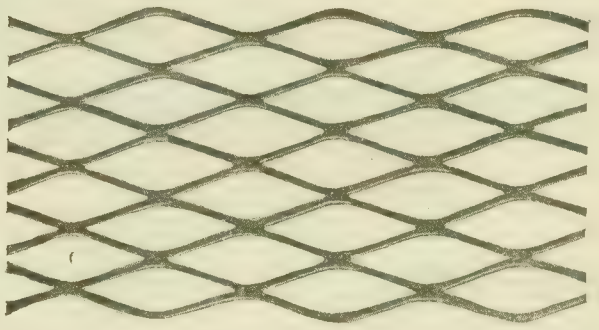
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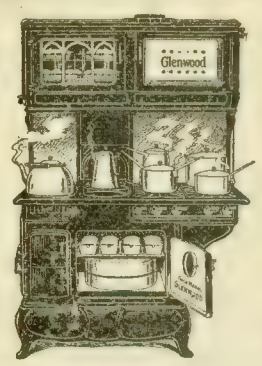
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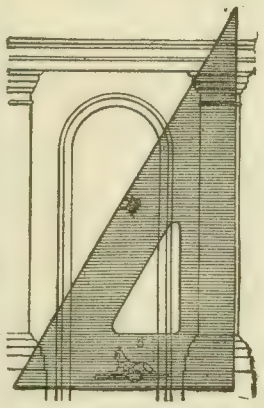
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 14

PHILADELPHIA
April 5, 1922

BUILDERS' GUIDE

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Sales and Service Station, Broad and Allegheny avenue, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Thomas B. Martindale, 3437 North Broad street, Philadelphia. Brick, concrete, steel and stone, 2 stories, 100x265 feet. Plans in progress.

School and Auditorium, Forty-fifth and Wyalusing avenue. Architects, Hoffmen Henon, Inc., Finance Building, Philadelphia. Owners, Our Mother of Sorrows Roman Catholic Church, care of Rev. Nevin Fisher, Forty-eighth and Lancaster avenue, Philadelphia. Brick, steel and cut stone, 3 stories, 199x111 feet, slag roof, maple and cement floors, hollow tile, metal lath, safety treads, roof ventilators, waterproofing, iron work, floor hardener, bond, metal doors, rolled steel skylights (heating, lighting, plumbing, tile and marble work reserved). Architects taking bids due April 7th.

Residence and Garage, Forty-ninth and Monument avenue, Philadelphia. Architect, private plans. Owner, J. Paley, care of builder. Stone, 2½ stories, 51x45 feet, and 1½ stories, 23x21 feet, slate roof, oak, pine and cement floors, metal lath, hot water heat, electric work, tile work, iron work. John N. Gill & Co., Otis Building, figuring.

Residence and Garage, Allen Lane, Germantown. Architect, Samuel D. Hawley & Co., 30 South Seventeenth street. Owner, A. Sidney Jenkins, care of architect. Stone, 2½ stories, 30x41 feet and 39x44 feet, slate roof, oak and pine floors, iron work (plumbing, heating, lighting and bond not included). Architect has received bids.

Residence, North side Sentner street, East of G street, $5,000. Architect, private plans. Owner, John Distler, 210 Loney street, Philadelphia. Frame, 2 stories, 26x29 feet 4 inches, shingle roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (6), East side Palmetto street, South of Bleign, $3,000 each. Architect, private plans. Owner, Louis Lutenberger, 7345 Oxford avenue, Philadelphia. Brick, 2 stories, 14½x42 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (3), 401-3-5 Duncannon avenue, $4,000. Architect, private plans. Owner, M. H. Riegel, 337 East Chelten avenue, Philadelphia. Brick, 2 stories, 15x29 feet, 12x12 feet and 15x42 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

Building (add.), Northeast Corner Twenty-second and Cambria streets, $2,500. Architect, private plans. Owner, A. Rosenblatt, 2618 Germantown avenue, Philadelphia. Brick, second story add., 22x67 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Garage, Clementine street, West of Frankford avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, A. Salot, on premises. Brick, concrete, 1 story, 70x150 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Plans completed. Architect ready for bids.

Hotel Apartments, Northeast Corner Forty-sixth and Walnut streets. Architect, James S. C. Fernald, 5533 Wyalusing avenue. Owner, Thomas H. Hargest, 501 North Fifty-second street. Brick, steel, concrete, limestone and terra cotta, 5 stories, 101x125 feet, tile roof, iron partitions, metal lath, passenger elevators, kitchen equipment, steel stairs, copper skylights, rolled steel sash, tile, marble and terrazzo, steam heat, electric light. Architect taking bids due April 12th.

Schools (2), Junior Highs, Thirteenth and Louden streets, and Fifty-fourth and Warrington avenue, Philadelphia. Architect, private plans. Owners, Board of Education, J. D. Cassell, Nineteenth above Chestnut street. Brick, cut stone and steel, 3 stories and basement, 290x182 feet, composition and asbestos shingle roof, concrete and maple floors, metal lath, metal window guards, waterproofing, terra cotta, cold water painting, iron work and stairs, steel doors, rolled steel sash and skylights, tile, marble and terrazzo work. Owners taking bids due April 6th at noon.

Sales and Service Building, 1155-57 South Broad street. Architect, R. W. Pollock, 1802 Chestnut street. Owner, Joseph A. Cunningham, on premises. Brick, cut stone and concrete, 2 stories, 46x52 feet, slag roof, composition floors, roof ventilators, heating, plumbing and lighting reserved), architectural terra cotta. Revised plans in progress. Will take new bids in two weeks.

Residences (33), East side Twentieth street, North of Sixty-fifth street, $4,000 each. Architect, private plans. Owner, George Ungerer, 4921 Fairhill street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (2), Loughlin street, East of Rising Sun avenue, $7,000. Architect, private plans. Owner, Rose Building Co., 2616 Bridge street, Philadelphia. Frame, 2 stories, 20x30 feet and 24x40 feet, shingle roof, yellow pine floors, hot water heat, electric light. Owners will build.

Church Building, Twelfth street and Oak Lane avenue, Oak Lane, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Oak Lane Baptist Church, on premises. Stone, brick and cut stone, 1 story and basement, 50x80 feet and 18x18 feet, slate and concrete roof, pine floors, steam heat, electric light, tile work,

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roof ventilators, iron work. Architect taking bids due April 10th.

Residence and Store (alts. and add.), Northwest Corner Broad and Dickinson streets. Architect, private plans. Owner, Joseph N. Borguvanni, 601 Washington avenue, Philadelphia. Brick, second and third story add., 18x11 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Rooming House (alts.), 125 South Twenty-second street, Philadelphia, $5,000. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, C. A. Morrell, Finance Building, Philadelphia. General interior alterations. Owner will build.

Residences (15), Chew street, North of Hortter street, $43,800. Architect, private plans. Owner, John Uber, 2740 South Sixteenth street, Philadelphia. Brick, 2 stories, 16x38 feet and 16x27 feet, 12x10 feet, slag roof, oak and pine floors, hot water heat. Owner will build.

Rooming House and Office (alts.), 4072 Spring Garden street, $2,500. Architect, private plans. Owner, George W. Hansell, 6 South Forty-third street, Philadelphia. General interior alterations. Owner will build.

Residences (29), Eighth street, North of Louden street, $5,000 each. Architect, private plans. Owner, W. Fischer's Sons, Northwest Corner Eighth and Rockland streets. Brick, 2 stories, 15 feet 7 inches x 34 feet 8 inches, 12x11 feet 4 inches, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residence, West side Bingham street, North of St. Vincent street, $3,500. Architect, private plans. Owner, Louis C. Brill, 7346 North Montour street, Philadelphia. Frame, 2 story, 28x41 feet, shingle roof, yellow pine floors, hot water heat, electric light. Owner will build.

Y. W. C. A. Building, Sixteenth and Catherine streets, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Y. W. C. A. for Colored, on premises. Brick, steel and cut stone, 3 stories, 73x123 feet, Johns Manville asphalt and promenade tile roof, pine, cement and maple floors, metal lath, iron stairs and work, tin clad doors, rolled steel sash and skylights, marble work (heating, lighting, plumbing and elevators reserved). Architects will take revised bids in a few days.

Poultry Slaughter House, 2838-44 North Twenty-eighth street, Philadelphia. Architect, David D. Weitz, 840 Real Estate Trust Building, Philadelphia. Owners, S. Weitz, S. Volk, H. Feinstein and S. Levin, care of architect. Brick and steel, 1 story, 62x72 feet, garage, 1 story, 91x18 feet, slag roof, cement floors, hollow tile, waterproofing, architectural terra cotta, bond, steam heat, electric light. Architect has received bids.

Building (alts. and add.), Fourth and Greene streets, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue. Owner, Edward Jacoby, care of architect. Brick and steel, 4 stories, 113x20 feet, slag roof, pine floors, metal ceilings, iron work, tile and marble work, plumbing (heating and lighting reserved). Architect taking bids due April 13th.

Residence, 186 East Huntingdon street, and **Store and Residence (alts. and add.)**, 2552 Kensington avenue, Philadelphia. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owner, Louis Snyder, on premises. Brick, 2 stories, 50x20 feet, slag roof, oak and pine floors, tile and marble work, iron work (heating, lighting and plumbing reserved). Architect has received bids.

Operation of Residences, Lincoln Drive and Mt. Airy avenue, Philadelphia. Architect, private plans. Owner, John H. McClatchy, Land Title Building, Philadelphia. Stone and brick, 3 stories, will contain 3 bathrooms, tile roof, hardwood floors, hot water heat, electric lighting, tile and marble work. Owner is building first 30. Will take sub-bids on others at later date.

Residences (26) and Store and Residence, Haines and Chew streets. Architect, E. Allen Wilson, 1208 Chestnut streeet, Philadelphia. Owner, Philip Robin, 2872 East Memphis street. Brick, 2 stories, (26) 16x32 feet, (1) 18x40 feet, slate roof, hardwood floors, hot water heat, electric lighting. Architect is taking sub-bids.

Residences, 1500-24 Chew street, Philadelphia, $63,400. Architect, private plans. Owner, William J. Baltz, Sixty-sixth and Lawnton avenue, Philadelphia. Brick, 2 stories, 16½x45 feet and 15 feet 11 inches x 31 feet, 12x14 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

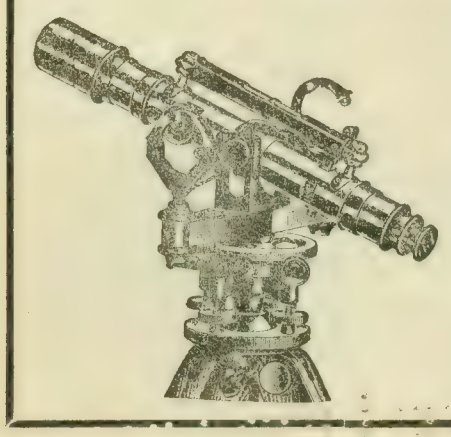
Bungalow, North side Grant avenue, East of Hegerman street, $12,000. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, H. A. Stevens Howarth, 4836 Roosevelt Boulevard, Philadelphia. Frame and stone, 1 story, 50x42 feet, 19x22 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Architect will build.

Garage, 1002-04 West York street, Philadelphia, $8,000. Architect, private plans. Owner, George E. Noll, 2352 North Thirteenth street, Philadelphia. Brick, 1 story, 33½x90½ feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Garage, 3950-52 North Fairhill street, Philadelphia, $6,500. Architect, private plans. Owner, Edward B. Miller, 615 Pike street, Philadelphia. Brick, 1 story, 24x20 feet, 16x41 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Residence and Store (alts. and add.), 284 West Rittenhouse street. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, David Rosenbaum, on premises. Brick, 2 stories and basement, add. 16x16 feet, tin roof, reinforced concrete work, pine floors, plumbing, flush bulk, plate glass, plumbing (heating and lighting reserved). Architect has received bids.

Residences (50), McLean and Clapier streets, Chestnut Hill. Architect, private plans. Owner, John H. McClatchey, Land Title Building, Philadelphia. Stone, 2½ stories, hot water heat, electric light, tile work,



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Storage Building (add.), Water and Spruce streets, Philadelphia. Engineers, Utility Supply Co., care of Mr. Rogers, 329 North Fourth street, Philadelphia. Owners, Quaker City Cold Storage Co., on premises. Ice tanks and miscellaneous work, slag roof, cement floors, electric work. Engineers are taking sub-bids.

Comfort Station, Cobb's Creek Park, Philadelphia. Architect, private plans. Owners, Fairmount Park Commission, City Hall, Philadelphia. Brick, 1 story, 26x22 feet, shingle roof, cement floor. Owners have received bids.

Residence, Manayunk, Philadelphia. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, T. S. Potts, care of architect. Stone and clapboard, 2½ stories, 38x28 feet, wing 12x20 feet, shingle roof, hardwood floors, hot water heat, electric light. Plans in progress.

Church, Northeast Corner Sixtieth and Master streets. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Calvin Presbyterian Church, on premises. Stone. Plans in progress. Details undecided.

Water Bureau Headquarters, Twenty-eighth and Cambria streets. Architect, private plans. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Brick and steel, 1 story, 280x100 feet, gypsum tile roof, wood, block and concrete floors, roof ventilators, rolled steel sash and ventilators and doors, bond, iron work. Lowest bidders, all items included: Robbins Cont. Co., 1137 North Front street, $105,627; T. J. & J. R. Whelan, Seventeenth and Summer streets, $106,585.

Residences (3), 705-07-09 Cliveden avenue, Philadelphia, $20,000. Architect, private plans. Owner, Don Peters, 515 Pelham road, Philadelphia. Brick, 1 and 3 stories, 42x36 feet, 40x36 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residence, East side Second street, North of Wyoming avenue, $4,000. Architect, private plans. Owner, William Banger, 4703 North Second street. Brick, 2 stories, 18x29 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Extensions to Farm Building and Cottages, Byberry, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Health, Bureau of Hospitals, 584 City Hall. Brick, cut stone, stucco and steel, 2 wings, 1 story, 80x12 feet, tin and shingle roof, pine and composition floors, metal lath, iron work. Owners taking bids due April 10th. George H. Evans, Inc., 109 North Thirteenth street; Conneen Const. Co., 10 South Eighteenth street; J. B. Kelly, 2313 Walnut street; Hurley Brothers, Bulletin Building; C. Day, Mitchell Brothers, 2125 Race street; Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, and E. C. Durell, 1716 North Twenty-fourth street, are figuring.

Elementary School, Lansdowne avenue and Prentiss avenue, Philadelphia. Owners, Board of Education, J. D. Cassell, Nineteenth above Chestnut street. Brick, cut stone and steel, 3 stories, 170x146 feet, mastic asphalt, maple and cement floors, metal lath, slag roof, metal weather strips, waterproofing, terra cotta, iron work, rolled steel doors, tile and marble work. Owners taking bids due April 6th.

Swimming Pool and Bath House, Second below Cumberland street. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Welfare, Bureau of Recreation, City Hall. Owners will be ready for bids in one week.

Residences (15), Store and Residence (1), Pelham road, Germantown avenue and Carpenter street, Philadelphia, $125,500. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Robert Killough, Wayne avenue and Duval streets, Philadelphia. Brick, 2 stories, 45x23½ feet, 20½x34 feet 9 inches, 19x35 feet, 20x40 feet and 50x20 feet, slag roof, oak and yellow pine floors, tile work, hot water heat, electric light. Owner will build.

Residences and Stores (3), Torresdale avenue, North of Longshore, $9,000. Architect, private plans. Owner, William C. Hirst, 2505 Longshore street, Philadelphia. Brick, 2 stories, 19x30 feet, 16x29 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Theatre, 747 South Third street, Philadelphia. Architect, Eugene A. Stopper, 1507 Arch street, Philadelphia. Owners, Franklin Theatre, on premises. Architect taking bids. Ketcham & McQuade, 1029 Brown street, figuring.

Store Building (alts. and add.), 5945 Market street, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, Samuel Bacharach, on premises. Brick and steel, slag roof, oak and composition floors, metal lath, plastering, tile and marble work, iron work, architectural terra cotta. Architect taking bids due April 10th. Ketcham & McQuade, 1029 Brown street, figuring.

Louise Cottage, Chestnut Hill, Philadelphia. Architect, Albert Kelsey, Perry Building, Philadelphia. Owner, Mrs. Jay Cooke, Chestnut Hill, Philadelphia. Stone, 2½ stories, 44x20 feet and 30x20 feet, slate roof, oak and pine floors, metal lath, hot air heat, electric light, tile and marble work, iron work. Architect taking bids due April 8th. J. S. Cornell & Son, Morris Building; Jacob Myers & Sons, Witherspoon Building; John E. Walt, 204 East Willow Grove avenue; J. Sims Wilson Co., 1125 Brown street, and George S. Roth, 230 East Graver's Lane, are figuring.

Residence (add.), location withheld. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Sun parlor addition, carpentry, mill work, heating and lighting extension, tile work, hollow metal skylights, plastering. Architect will take sub-bids in one week.

Building (alts. and add.), 1720 Vine street, Philadelphia. Architects, Emile G. Perrot, 1211 Arch street, Philadelphia. Owner, F. X. Kelly, on premises. Architect taking bids due April 10th. William R. Dougherty, 1610 San-

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som street; Wills, Bill Co., 1706 Sansom street; Frank V. Warren, 132 South Seventeenth street; Frank J. Smith, 1029 Mt. Vernon street; Franklin Harris Co., 1520 Parrish street, and T. J. & J. R. Whelan, Seventeenth and Summer streets, are figuring.

Store and Residences (2), 2508-10 West Lehigh avenue. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, George Mondshein, on premises. Alterations to entire building, electric lighting, steel reinforcing, new partitions, plastering, mill work. Architect will be ready for bids in one week.

Church Superstructure, Twenty-eighth and Cambria streets, Philadelphia. Architect, J. Horace Frank, Real Estate Trust Building. Owners, Mediator Lutheran Church, on premises. Stone, 1 story, 46x78 feet, slate roof, bay add. to basement. Plans in progress. Will take bids in ten days.

Residences (2), Queen Lane Manor, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Hollow tile and stucco, 2½ stories, 25x42 feet each, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect will be ready for bids in a few days.

Fire Insurance Patrol House, Fifty-first and Sansom streets, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Fire Insurance Patrol of Philadelphia. William Gardner Crowell, president, 510 Walnut street, Philadelphia. Brick, 2 stories, 40x66 feet, slag roof, pine and concrete floors, steam heat, electric light, waterproofing. Owners taking bids due April 10th.

Sheet Metal Warehouse and Annex Office, 232-235 Arch street. Architect, Valentine B. Lee, 1003 Spruce street, Philadelphia. Owners, Berger Brothers, on premises. Brick, steel and concrete, 5 stories. Architect taking bids due April 8th. H. H. Wehmeyer, 509 West Cumberland street; F. L. Hoover & Son, 1023 Cherry street; Curtis-Grindrod Co., 10 South Eighteenth street; William Steele & Sons Co., 1600 Arch street, and H. H. Burrell, 206 South Quince street, are figuring.

Apartment House (alts. and add.), 6839 Germantown avenue. Architect, Charles F. Spies, 713 Raymond street, Philadelphia. Owner, Charles P. Gable, on premises. Brick and cut stone, 1 story add., 73x20 feet, slag roof, pine floors, hot water heat, electric light, tile work, hollow metal skylights, roof ventilators. Owners taking bids.

Residence, Queen Lane Manor, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street. Owner, Henry G. Reinfsnyder, Manheim Apartments, Germantown. Hollow tile and brick, 2½ stories, 26x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect is ready for bids.

Residence (alts. and add.), 1731 Pine street, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, Dr. J. A. Longford, care of architect. Brick, 3 stories, 20x100 feet, general alterations to offices. Architect will be ready for bids in a few days.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Hotel, Locust, Juniper and Watts streets, Philadelphia, $3,000,000. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, R. A. Heymann, Morris Building, Philadelphia. Brick, cut stone and steel, 15 stories, 150x96 feet, slag roof, maple and concrete floors, metal lath, elevators, dumb waiters, waterproofing and dampproofing, iron work and stairs, bond, rolled steel skylights, tile and marble work, terra cotta, mechanical equipment, steam heating, electric lighting. Contract awarded to John R. Wiggins Co., Eighteenth and Cherry streets.

Factory, Blabon street and Hunting Park avenue, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Hensel Colladay, Twelfth and Wood streets. Reinforced concrete and brick, 3 stories, 150x160 feet, slag roof, cement and maple floors, dumb waiter, safety treads, roof ventilators, cold water painting, dampproofing, iron work, floor hardener, hollow metal skylights, rolled steel sash, kalamein doors, tile and marble work (heating, lighting, plumbing and elevators reserved). Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Store Building, 1229 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Goldberg Brothers, care of architect. Brick, steel and artificial stone, 4 stories and basement, 175x211 feet, slag roof, oak and cement floors, metal lath, cold water painting, dampproofing, iron work, floor hardener, bond, metal bulks, tin covered and kalamein doors, hollow metal sash, rolled steel sash, tile and marble work. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Sales and Service Building and Garage, Ridge avenue and Wallace street. Architect, H. B. Weldon, 10 South Eighteenth street. Owner, Louis J. Kolb, care of agent, H. T. Saunders, 31 South Eighteenth street. Brick and steel, 1 story, 260x124 feet, slag roof, cement and pine floors, electric lighting. Contract awarded to William G. Uhlers' Sons, 1909 McKean street.

Field Office, 228 North Delaware avenue, Philadelphia, $8,440. Owners, Delaware River Bridge Commission, 806 Widener Building. Brick and steel, carpentry, mill work, painting, slate roof, steam heat, electric work, plumbing, bond. Contract awarded to Friel McLeister, Inc., 2146 East Norris street.

Church, Third and Wolf streets, Philadelphia. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owners, Our Lady of Mt. Carmel Roman Catholic Church, care of Rev. John J. Wheeler, on premises.

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Stone and steel, 120x78 feet (slate roof, steel sash, heating, electric light, tile work and plumbing reserved), slag roof, pine floors, metal lath, dampproofing, bond, iron work. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Edward C. Sest Memorial Building, Forty-fifth and Baltimore avenue, $35,000. Architects, Edwards & Baker, 1012 Walnut street, Philadelphia. Owners, Home of the Merciful Saviour for Crippled Children, on premises. Brick and cut stone, 1½ stories and basement, 103x37 feet, slate roof, linoleum and pine and cement floors, metal lath, iron work (heating, lighting, plumbing, tile and marble work reserved). Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Store and Residence (alts. and add.), 1607-09 Ridge avenue. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Robert Decker, care of architect. Brick and cut stone front, slag roof, composition floors, metal lath, plastering, hot water heat, electric light, plumbing, tile and terrazzo and iron, carpentry, mill work. Contract awarded to John Schnabel, Inc., Denckla Building, Philadelphia.

Factory, Power House, Garage and Store, Sixteenth and Indiana avenue, $35,000. Architect, E. A. Stopper, 1507 Arch street, Philadelphia. Owner, Martin H. Walrath, Park and Glenwood avenues, Philadelphia. Brick and steel, 1 and 2 stories, 125x67 feet, slag roof, cement and maple floors, electric work, tile work, rolled steel sash and skylights, fire doors, bond, iron work. Contract awarded to Jacob Y. Loux, Fifteenth and Hunting Park avenue.

Store Buildings (10), 1222 to 1240 Vine street, Philadelphia, $55,000. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, Daniel Dever, 1636 Market street, Philadelphia. Brick, cut stone and steel, 2 stories, 16½x85 feet each, slag roof, pine floors, metal lath and ceilings, flush bulks, iron work, central steam heat, electric lighting. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

Residence, Chestnut Hill, Philadelphia, $13,-080. Architect, John Graham, Jr., 10 South Eighteenth street, Philadelphia. Owner, John Graham, on premises. Stone, 2½ stories, 36x25 feet, slate roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to James Riley & Son, Mt. Airy, Philadelphia.

Residences (2), 6112-14 Torresdale avenue, Philadelphia, $7,000 each. Architect, private plans. Owner, J. Philip Keck, 5916 Torresdale avenue, Philadelphia. Brick, 3 stories, 16x54 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Lewis Dietrich, 3016 Comly street, Philadelphia.

Garages (2), 3521-23-25 North Watts street, Philadelphia, $14,500. Architect, private plans. Owner, S. Cooper, care of builder. Brick, 1 story, 21 feet 9 inches x 24 feet 5 inches, 15½x80 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to L. Swerdloff, 228 South Fifty-ninth street, Philadelphia.

Residence and Store, Southeast Corner York road and Spencer street, $11,000. Architect, private plans. Owner, S. B. Davis, Broad and Nedro streets, Philadelphia. Brick, 2 stories, 18½x62 feet, slag roof, yellow pine and oak floors, hot water heat, electric light. Contract awarded to P. A. Waltz, Oak Lane and Philadelphia and Reading Railway.

Office (alts.), Northeast Corner Seventeenth and Arch streets, Philadelphia, $10,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., on premises. Concrete work, carpentry and mill work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Residence, West side Fifty-fifth street, North of Thomas avenue, $6,500. Architect, private plans. Owner, Anna L. Massey, Northwest Corner Fifty-fifth and Thomas avenue. Brick, 2 stories, 24½x44 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, metal lath, metal ceiling. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Residence and Office (add. and alts.), 879 Belmont avenue, $6,000. Architect, private plans. Owner, Mrs. A. P. Weaver, on premises. Brick, 2 stories, 14x13 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Warren E. Biscoe, 4222 Brown street, Philadelphia.

Residence and Garage, South side Bells Mill road, West of Germantown avenue. Architects, Mellor, Meigs & Howe, 205 South Juniper street. Owner, Russell C. Hughes, Bulletin Building, Philadelphia. Brick, 3 stories, 62x30 feet, slate roof, oak and pine floors, hot air heat, electric light. Contract awarded to F. K. Stahl, 2711 North Park avenue, Philadelphia.

Rooming House (add.), 1629 Spruce street, Philadelphia, $7,000. Architect, private plans. Owner, A. F. Brown, Lincoln Building, Philadelphia. Brick, 3 stories, 16½x19 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to W. A. Evitts, Forty-fourth and Locust streets, Philadelphia.

Residence, South side Magee street, West of Oakley street, $4,500. Architect, private plans. Owner, Emil Bodenheimer, 1130 Fanshaw street, Philadelphia. Frame, 2 stories, 26x27 feet, shingle roof, yellow pine floors, hot air heat, electric light. Contract awarded to William Easterbrook, 146 North Fourth street, Philadelphia.

Residence (alts.), 1835 North Thirty-third street, Philadelphia, $4,000. Architect, private plans. Owner, Mrs. A. Davidson, on premises. Carpentry, mill work, painting, glazing, plastering. Contract awarded to Basch & Co., 713 Walnut street, Philadelphia.

Residences (2), 5651-53 North Second street, Philadelphia, $3,500 each. Architect, private plans. Owner, Emma McMaster, 4933 North Fifth street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x11 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Louis Braening, Jr., 4933 North Fifth street.

Residences (2), West side Mascher street, South of Chew street, $6,000 each. Architect, private plans. Owner, Jacob Bender, 5721 North Third street, Philadelphia. Brick, 2 stories, 16x48 feet, 18x48 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Charles Townsend, 5512 North Fairhill street.

Building (alts. and add.), 508 Arch street, Philadelphia. Architect, private plans. Owners, Goldstein Brothers, on premises. Brick

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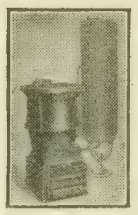
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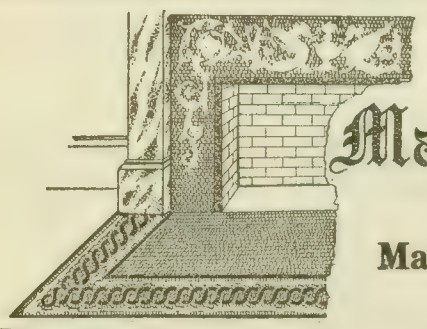


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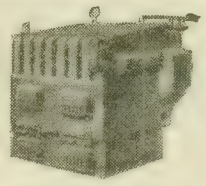
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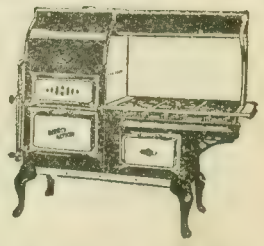
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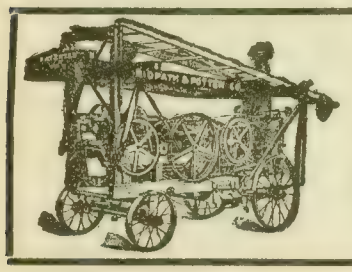
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and steel, 3 stories, 20x60 feet, slag roof, maple floors, steam heat, electric light, rolled steel sash. Contract awarded to Turnbull & Cornell, 20 South Eighteenth street.

Garages, 270-276 West Haines street, Philadelphia, $9,500. Architect, private plans. Owners, Trott Estate, 257 West Rittenhouse street, Philadelphia. Brick, 1 story, 23x18 feet, 16x81 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to William E. Birch, 244 West Haines street, Philadelphia.

Residences (6) and Garages (4), Sixteenth and Wyoming avenue, $31,500. Architect, private plans. Owner, L. Goldstein, 720 Porter street, Philadelphia. Brick, 2 stories, 15½x30 feet, 12x10 feet, 15 feet and 12x10 feet and 16x45 feet, slag roof, oak and pine and cement floors, hot water heat, electric light. Contract awarded to A. Goldstein, 2605 South Seventh street, Philadelphia.

Synagogue (alts. and add.), 509 Pine street, Philadelphia, $7,000. Architect, private plans. Owner, B. Shapiro, Eighth and Lombard streets, Philadelphia. Brick, 2 stories, 19x25 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to Frank & Kaiser, 1522 South Sixth street, Philadelphia.

Residence and Store (alts. and add.), 446 West York street, $7,500. Architect, private plans. Owner, Charles Hanapolsky, Fifth and York streets, Philadelphia. Brick, 2 stories, 16x10 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to M. J. Benamy, 5758 North Fifth street.

Residence (alts.), 1409 West York street, $2,800. Architect, private plans. Owner, Max Mandelhorn, on premises. General interior alterations. Contract awarded to Charles Maenner, 344 Gladstone street, Philadelphia.

Bungalow, Levick street and Woodlawn avenue, $5,000. Architect, private plans. Owner, John J. Schoenning, on premises. Frame, 1 story, 31x44 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to Lewis D. High, 1024 Robbins avenue.

Store and Apartments, Oxford Pike, Wakeling and Saul streets, $22,000. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, George T. Sale, Liberty Building, Philadelphia. Brick, cut stone and steel, 3 stories and basement, 56x49x47 feet, slate and slag roof, oak and pine floors, metal lath, electric lighting, tile and iron work. Contract awarded to Rush Brothers, 1016 Harrison street, Philadelphia.

Parochial School, Thompson, between Buckius and Ash streets, Philadelphia. Architect, Paul Monaghan, 1218 Chestnut street. Owners, All Saints' Roman Catholic Church, on premises. Stone, brick and steel, 2 stories, 136x66 feet, slate and slag roof, maple floors, hollow tile, metal lath and window guards, iron work, demolition (heating and plumbing reserved), electric light. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Hospital (alts.), 808-10 North Seventh street, Philadelphia, $49,000. Architects, Clark & Dudnick, 23 South Sixteenth street. Owners, Northern Liberties Hospital, Nathan Kushin, premises. Brick, steel and concrete, limestone, gypsum block roof, composition floors, vapor heat, electric light, tile and marble work, metal lath, rolled steel skylights, fire doors, ornamental iron work. Contract awarded to Robbins Cont. Co., 1137 North Front street.

Porter Street Pier, No. 84, South Wharves, Delaware River, Philadelphia, $1,250,000. Architect, private plans. Owners, Bureau of Yards, Docks and Ferries, Bourse Building. Contract awarded to Franklin M. Harris & Co., 1520 Parrish street.

Stores and Offices (alts.), Northeast Corner Broad and Walnut streets, $2,500. Architect, private plans. Owner, A. Schulte, 217 South Broad street, Philadelphia. Tile work, general interior alterations. Contract awarded to Albert Zellfelder, 151 South Broad street, Philadelphia.

Bungalow, Southwest Corner Rising Sun avenue and Shelmire street, $3,500. Architect, private plans. Owners, E. Davis and R. Kocherspringer, Rising Sun and Cottman street, Philadelphia. Frame, 1 story, 26x49 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to J. Mitchell, Oxford North of Bleigh street.

Residences (2), South side Pratt street, West of Erdrick street, $3,000. Architec, private plans. Owner, Stephen Wazolek, 5023 Worth street, Philadelphia. Brick, 2 story, 16x46 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to John Kazmieregate, 2385 Orthodox street.

Residence, East side Frankford avenue, North of Hawthorne street, $3,500. Architect, private plans. Owner, William Dietrich, 2027 Wakeling street, Philadelphia. Brick, 2 story, 20x40 feet, slag roof, pine floors, hot water heat, electric light, tile work. Contract awarded to Lewis Dietrich, 3016 Comly street, Philadelphia.

Garage, West side Marshall street, South of Cayuga street, $2,800. Architect, private plans. Owner, Elmer Heinel, on premises. Brick, 1 story, 17x92 feet, slag roof, cement floors, electric light. Contract awarded to Supper & Foster, 5614 North Second street, Philadelphia.

Store, Southeast Corner Roosevelt Boulevard and Holme street, $2,500. Architect, private plans. Owner, David J. Sinn, care of builder. Brick, 1 story, 25x20 feet, slag roof, yellow pine floors, electric light. Contract awarded to Lewis Ahlers, 4433 Salmon street, Philadelphia.

Residence (alts.) to Apartments, Northeast Corner Nineteenth and Mt. Vernon streets. Architect, William F. B. Koelle, Otis Building. Owner, Thomas J. Minnick, Seventeenth and Fairmount avenue. General alterations, electric lighting, hot water heat. Contract awarded to J. Jones Davies, 3907 Walnut street, Philadelphia.

Paper Box Factory (add.), 1432 North Randolph street, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Peerless Paper Box Mfg. Co., on premises. Brick, terra cotta and steel, 2 stories 84,x54 feet, slag roof, maple floors, metal lath, demolition, rolled steel sash (heating and lighting and plumbing reserved). Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Undertaking Office, Fifty-second and Funston streets, Philadelhia. Architect, Bruce D. Wenner, 3805 Baring street, Philadelphia. Owners, Frankenfield & Sons, 322 North Fifty-second street. Brick, steel and terra cotta, 3 stories, 98x36 feet, slag roof, mineral floors, steam heat, electric light, tile and marble work. Contract awarded to F. B. Davis & Sons, Inc., 240 North Sixteenth street.

Warehouse, East side Fourth street, North of Bristol street, $6,400. Architect, private plans. Owner, T. McFadden, Frankford ave-

nue and Thompson street, Philadelphia. Brick, 1 story, 40x102½ feet, slag roof, cement floors, electric light. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Boiler House (rear), 677 North Fifteenth street, $5,000. Architect, private plans. Owners, E. L. Mansure Co., 1415 North street, Philadelphia. Brick, 1 story, 34x38 feet, slag roof, cement floors, electric light. Contract awarded to Wilson Ruff Co., Franklin Bank Building, Philadelphia.

Residences (9), Southwest Corner Fleming street and Krams avenue, $38,100. Architect, private plans. Owner, S. T. Bonham, Ridge avenue and Dupont street, Philadelphia. Brick, 2 story, 16x41 feet and 15½x26 feet, 13x15 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Brown Const. Co., 105 Levering street.

Ice House, 6215 Germantown avenue, Philadelphia, $2,500. Owners, Supplee-Wills-Jones Co., Twenty-sixth and Jefferson streets. Brick, 1 story, 48x20 feet, slag roof, cement floors. Contract awarded to George Kessler Cont. Co., Drexel Building, Philadelphia.

Building (add.), East side Edgemont street, North of Tioga street, $2,800. Architect, private plans. Owners, Quaker City Iron Works, on premises. Brick, 2 stories, 16x27 feet, slag roof, yellow pine floors. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Freight and Transportation Building (alts.), Gaul and Norris streets, 3,050. Architect, private plans. Owner, J. Kline, on premises. General alterations. Contract awarded to Albert Dunlap, 7223 Oak avenue, Oak Lane.

Residence and Store (alts.), 3031-05 North Eighth street, Philadelphia, $2,800. Architect, private plans. Owner, Morris Wolf, 1424 South Penn Square, Pa. General interior alterations. Contract awarded to B. J. McKenna, 2643 North Hutchinson street, Philadelphia.

Residences (4), 1313-15-17-19 Claridge street, $3,750 each. Architect, private plans. Owners, Kuhn & Gerstemeier, on premises. Brick, 2 stories, 16x48 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Henry J. Tunstal, 1006 Cottman street, Philadelphia.

Garage, Northwest Corner Forty-first and Aspen streets, Philadelphia, $10,400. Architect, Herman H. Kline, 1612 South Fourth street, Philadelphia. Owner, A. Gileshansky, 4126 Poplar street, Philadelphia. Brick, 1 story, 51x50 feet and 48x96 feet, slag roof, cement floors, steam heat, electric light, steel sash. Contract awarded to Joseph Eskin, 4106 Westminster avenue, Philadelphia.

Building (alts. and add.), 3302 North Broad street, Philadelphia, $8,000. Architect, Mackenzie & Wiley, Liberty Building, 1211 Chestnut street, Philadelphia. Owner, William Garfield, 1211 Chestnut street. Brick, 3 stories, 13x18 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to H. M. Shandles, 2333 South Front street, Philadelphia.

Residence, Store and Office, 741 South Third street, $10,000. Architects, Neubauer & Supowitz, 929 Chestnut street. Owner, M. Rappaport, care of architects. Brick, 3 stories, 18x63 feet, slag roof, hardwood floors, stone foundations, hot water heat, electric light, metal bulks. Contract awarded to M. J. Reiser, 251 South Felton street, Philadelphia.

Residence, South side Fanshaw street, West Oakley street, $6,000. Architect, private plans. Owner, William Robinson, 2863 Howard street, Philadelphia. Brick, 2 stories, 17x36 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Samuel T. Skeen, 3748 North Fifth street, Philadelphia.

Residence and Store (alts. and add.), 2418 South Seventh street, $3,000. Architect, private plans. Owner, Fannie Feinberg, 342 Wolf street, Philadelphia. Brick, 2 stories, 9x11 feet, slag roof, yellow pine floors, electric light. Contract awarded to Charles Schultz, 2513 North Thirteenth street.

Locker (add.), Northeast Corner Stenton and Mt. Airy avenues, $8,000. Architect, private plans. Owners, Stenton Country Club, on premises. Brick, second story add., 18x38 feet, slag and shingle roof, yellow pine floors, hot water heat, electric light. Contract awarded to John B. Kelly, 2313 Walnut street, Philadelphia.

Tenement (alts. and add.), 702-04 North Sixty-third street, $8,500. Architect, private plans. Owner, Francis J. Lambert, 403 North Sixty-third street, Philadelphia. Brick, 3 stories, 16x20 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to M. F. Lambert, 6228 Haverford avenue, Philadelphia.

Residences and Stores (2 family), Watts and Montgomery avenue, $10,500. Architect, private plans. Owner, Morris Olemick, 1225 Moyamensing avenue, Philadelphia. Brick, 2 stories, 57x18 feet, 20x16 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Charles Lipman Bro., 2428 South Fourth street, Philadelphia.

Double Quarters for Officers (2) and Double Quarters for Non-Commissioned Officers, Frankford Arsenal, Philadelphia, $41,900. Architect, private plans. Owners, Office of Constructing Quartermaster, Frankford Arsenal, Philadelphia. Brick, steel, frame and stone, 1

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story, 29x27 feet and 20x26 feet, tin and slate roof, pine floors, metal lath, iron work, steam heat, electric light, tile work. Contract awarded to Charles H. Dading, Bellevue Court Building, Philadelphia.

Store and Apartment (alts.), 2037 Norris street, Philadelphia, $1,650. Architect, private plans. Owner, P. Rothenberg, on premises. Mill work, stair work, plastering, cornice, painting, steel work, electric work, flush bulks. Contract awarded to A. S. Shafer, 2122 South Nineteenth street, Philadelphia.

Store (alts.), 837 North Fourth street, Philadelphia, $1,850. Architect, private plans. Owner, I. Stern, on premises. Concrete work, mill work, steel, carpentry, painting, copper work, tile and marble work, floor hardener, iron work, cornice. Contract awarded to A. S. Shafer, 2122 South Nineteenth street, Philadelphia.

PENNSYLVANIA Construction News

Residence and Garage, Rydal, Pa. Architect, Horace Trumbauer, Land Title Building. Owners, Ogontz School, Rydal, Pa. Stone, 2½ stories, 36x115 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Architect taking bids due April 10th.

Parochial School, Bethlehem, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Ursula's Roman Catholic Church, care of Rev. John P. Green, Bethlehem, Pa. Brick, cut stone and steel, 3 stories, 114x63 feet, slate roof, pine floors, metal lath, metal window guards, iron work, terrazzo work. Architect taking bids due April 10th.

Residence, Rydal, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, John Donahue, care of architects. Hollow tile, stucco and brick, 2½ stories, 25x36 feet, shingle roof, oak and pine floors, hot water heat, electric lighting, tile work. Architects have received bids.

Residence, Highland Park, Pa. Architect, private plans. Owner, A. Milton Klop, care of builder. Stone and stucco, 2½ stories, 41x24 feet and 12x22 feet, slate and slag roof, composition, oak and pine floors, metal lath, bond, hot water heat, electric lighting, tile work. John N. Gill & Co., Otis Building, Philadelphia, is figuring.

Wholesale Market, Easton, Pa. Architect, A. E. Bump, 60 North Market street, Boston, Mass. Owners, Swift & Co., Ninth and Girard avenue, Philadelphia. Reinforced concrete, 2 stories, 53x59 feet and 17x37 feet, Barrett roof, concrete and linoleum floors, metal lath, terra cotta tile, steam heat, electric light, rolled steel sash, bond, alternate basement under entire building. Engineer has received bids.

Power House, Scranton, Pa. Architects, Lockwood Greene Co., 101 Park avenue, New York City. Owners, Scranton Lace Co., Scranton, Pa. Brick, steel and concrete, 1 story and basement, 71x41 feet, 71x43 feet and 110x17 feet, Barrett roof, concrete and granolithic floors, safety treads, roof ventilators, waterproofing, iron stairs, steam heat, electric light, rolled steel sash, copper skylights, steel doors, iron stairs. Architects taking bids, due April 15.

Residence, Third street, Harrisburg, Pa., $10,000. Architect, B. E. Starr, Spooner Building, Harrisburg, Pa. Owner, I. Marcus, 264 Herr street, Harrisburg, Pa. Brick, 3 stories, 20x57 feet, slag roof, yellow pine floors, steam heat, electric light, tile work. Owner will sublet.

Warehouse, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Marshall Smith Co., Inc., Lancaster, Pa. Brick, steel, 2 stories, 32x100 feet, slag roof, concrete and wood floors, steam heat, electric light, iron stairs. Owner will build.

Residence, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, John Hohlefelder, Jenkintown, Pa. Brick, 2½ stories, 27x36 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work (brick, iron and stone masonry reserved). Owner has received bids.

Residence, Mt. Carmel, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, S. I. Junkus, Mt. Carmel, Pa. Brick and frame, 2 stories and basement, 23x41 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids April 8th. E. R. Bastress, Keystone Lumber & Const. Co., Mt. Carmel Lumber & Const. Co., J. C. Reiner and W. H. Bartho, all of Mt. Carmel, Pa., and H. S. Evert, Kulpmont, Pa., are figuring.

Apartment, Wilkes-Barre, Pa. Architect, F. J. Mack, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Mr. Dickson, Walnut street, Wilkes-Barre, Pa. Brick, tile, 2 stories, 37x60 feet, flat roof, pine floors, steam heat, electric light, tile work. Plans in progress.

Store and Apartment, Luzerne, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Max Robins, on premises. Frame, 2 stories, 46x80 feet, flat roof, pine floors, steam heat, electric light. Plans in progress.

Store (2) and Apartment, Seventh street, Carbondale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Frank P. Reilly, Eighth avenue, Carbondale, Pa. Brick, 3 stories, 41x60 feet, slag roof, hardwood floors, electric light, tile and marble work, plate glass. Plans in progress.

School (alts. and add.), Aristes, Columbia County, Pa., $75,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Conyngham Township, Edward J. Britt, on premises. Brick, 2 stories and basement, 80x64 feet, hardwood floors, electric light, tile work, general alterations. Plans in progress.

School (add.), William Penn, Pa., $40,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, West Mahoney Township School District, J. R. Coyle, Lost Creek, Pa. Frame, 2 stories, 4 rooms, general alterations. Plans in progress.

Casino, Pochosset Ground, Mount Pocono, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Edward O'Hara, Miller Building, Scranton, Pa. Stucco and frame. Plans in progress.

Armory, Wilkes-Barre, Pa. Architect, Thomas Atherton, Coal Exchange Building, Wilkes-Barre, Pa. Owners, State of Pennsylvania, B. W. Demming, secretary, State Capitol Building, Harrisburg, Pa. Concrete, brick, steel, 2 stories, 350x500 feet, concrete foundations, electric light, tile, marble and terrazzo work, roof ventilators, rolled steel skylights. Architect will be ready for bids in ten days.

Office, Pittston, Pa. Architects, McCornick & French, Second National Bank Building, Wilkes-Barre, Pa. Owner, R. J. Flick, Second National Bank Building, Wilkes-Barre. Steel, concrete, fireproof, 1 story and basement, 25x80 feet, concrete floors, composition roof, hot water heat, electric light, tile and marble work, steel sash and skylights, metal lath, roof ventilators. Owner taking bids due as soon as possible.

Bank and Office (alts. and add.), Stroudsburg, Pa. Architects, C. H. Davis and G. Lewis, Union Bank Building, Scranton. Owners, Stroudsburg National Bank, care of architect. Stone, 2 stories, 40x150 feet, slag roof, marble floors, hollow tile, electric light, tile, marble and terrazzo work, skylights, bank fixtures, roof ventilators, water and dampproofing. Architect will be ready for bids in two weeks.

Hospital (add.), Laury Town, Lehigh Township, Pa., $500,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Middle Coal Field Poor District, Laury Town, Pa. Fireproof, 3 and 4 stories, 50x150 feet, 60x100 feet, composition roof and floors,

steam heat, electric light, tile and terrazzo work, metal lath, elevators, roof ventilators. J. A. Bayless, secretary, Poor District, Hazleton, Pa., will be ready for bids April 20.

High School, Auditorium, Gymnasium and Cafeteria, Scranton. Architect, G. W. Edson, Connell Building, Scranton, Pa. Owners, Scranton School District, care of Mr. Hughes, Washington avenue, Scranton, Pa. Brick, tile, steel, 3 stories, (52) rooms, slag roof, hardwood and concrete floors, electric light, tile, marble and terrazzo work, hollow tile, metal lath, roof ventilators. Architect taking bids due April 24th. Applications for plans received at architect's office until April 15th.

Central High School (add.), Scranton, Pa., $500,000. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, School Board of Scranton, Mr. Hughes, secretary, Administration Building, Scranton, Pa. Stone, brick, steel, 3 stories and basement, 205x90 feet, tile roof, maple floors (heating, plumbing and electric work separate bids), marble, tile and terrazzo work, hollow tile, metal lath, elevators, safety treads, roof ventilators, skylights, waterproofing. Plans in progress.

Eagles' Home, Wilkes-Barre, Pa., $100,000. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Order of Eagles, care of architects. Semi-fireproof, 3 stories, 100x100 feet, built-up roof, hardwood and pine floors, hollow tile, metal lath, dumb waiters, steam heat, electric light, tile, marble and terrazzo work, skylights, steel sash, fire doors, waterproofing. Plans in progress.

Garage, Lower Merion Township, Pa. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, A. D. W. Smith, care of architect. Stone, 2 stories, red slate tile roof, concrete floors, electric light. Plans in progress.

Stores (3), Apartment and Offices (4), Nanticoke, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Hollow tile, stucco and steel, 3 stories, 75x113 feet, slag roof, hardwood floors, vapor heat, electric light, tile work, metal lath. Architect will be ready for bids next week.

Garage (add.), Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Max Savage & Bloom, Wilkes-Barre, Pa. Brick, fireproof, 2 stories, 60x71 feet, slag roof, concrete floors, steam heat, electric light. Will be ready for bids in ten days.

Bath House, Griffith Park, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, City of Wilkes-Barre, care of C. O. Shiber, City Hall, Wilkes-Barre. Brick, 1 story and basement, 30x45 feet, asbestos shingle roof, concrete floors, electric light, metal lath, laundry equipment. Owners will be ready for bids in ten days.

Apartments (12), River and Ross streets, Wilkes-Barre, $75,000. Architect, A. Reilley, Bennett Building, Wilkes-Barre, Pa. Owners, S. Engli & Gast, West South street, Wilkes-Barre, Pa. Brick, concrete, 3 stories, 117x44 feet, asphalt shingle roof, hardwood floors, steam heat, electric light, tile and marble work, terra cotta, fire escapes. Architect ready for bids.

Bungalow, Scranton, Pa. Architect, A. I. Prandzik, Scranton Life Building, Scranton, Pa. Owner, Stephen Kalakecko, 1009 North Main street, Scranton, Pa. Frame, 1½ stories, 28x34 feet, shingle roof, pine floors, pipeless heater, electric light. Owner taking bids.

Garage, Throop, Pa. Architect, A. I. Prandzik, Scranton Life Building, Scranton, Pa. Owner, Dr. Albert Novakak, 318 George street, Throop, Pa. Frame, shingle, 2 stories, 21x21 feet, shingle roof, concrete floors, electric light. Owner will take bids.

Duplex House, Scranton, Pa. Architect, A. J. Ward, County Savings Bank Building, Scranton, Pa. Owner, David A. Levy, 618 Capouse avenue, Scranton, Pa. Frame and stucco, 2½ stories, 35x65 feet, shingle roof, hardwood floors, steam heat, electric light, tile work, metal lath. Architect taking bids due April 10th.

Residences (4), Park street, Wilkes-Barre, Pa., $5,000 each. Architect, F. J. Mack, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Daniel Oppenheim, care of architect. Frame, 2½ stories, 25x28 feet, asphalt shingle roof, pine floors, steam heat, electric light. Architect has received bids.

Bridge, over Juniata River, above Duncannon, Pa., $250,000. Engineer, County Engineer Hershey, Harrisburg, Pa. Owners, Dauphin County Bridge Commission, Harrisburg, Pa. Concrete. Plans in progress.

Residence, Cynwyd, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, Frederick C. Newbourg, Real Estate Trust Building. Brick, 2½ stories, 39x26 feet and 19x11 feet, shingle roof, oak and pine floors, electric light, bond, iron work (heat reserved). Architect has received bids.

Bank Building, Ambler, Pa. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, First National Bank, Ambler, Pa. Brick, cut stone and steel, 2 stories, 90x57 feet, crumble asbestos building sheets in asphalt roof, cement and cork floors, hollow tile, metal lath, roof ventilators, metal window guards, tile and marble work, rolled steel sash and skylights, bond. Architect taking bids due April 7th.

Residence and Garage, Latham Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, Louis Burk, Third and Girard avenue, Philadelphia. Stone, 1 story, 36x21 feet, shingle roof, cement floors, metal lath, hot water heat, electric light, metal lath, iron work. Architect has received bids.

Residence, No. 42, Wynnewood, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Frame, 2½ stories, 31x27 feet and 27x25 feet, shingle roof, oak and pine floors, iron work, tile work (heating, plumbing and electric work reserved). Architect has received bids.

Residence (alts. and add.), Elkins Park, Pa. Architect, private plans. Owner, George F. Shuster, Elkins Park, Pa. General alterations and additions. Plans in progress.

Residence, Ardmore avenue, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Dr. C. H. Arnold, Ardmore, Pa. Hollow brick and stucco, 2½ stories, 43x26 feet, shingle roof, hardwood floors, hot water heating, electric lighting. Plans in progress.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Judge Hargest, 222 Market street, Harrisburg, Pa. Brick, 2½ stories, 31x80 feet and 18x25 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Architect has received bids.

Residence, Front and Emerald streets, Harrisburg, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, W. L. Forry, 37 North Third street, Harrisburg, Pa. Stone, 2 stories, 25x60 feet and 25x30 feet, tile roof, hardwood and composition floors, vapor heat, electric light, tile work. Architect has received bids.

Residence (alts. and add.), Philadelphia Pike, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, J. W. Eckenrode, 48 North Queen street, Lancaster, Pa. Brick, 2 stories, 15x20 feet, slate roof, hardwood floors, hot air heat, electric light, tile work. Architect has received bids.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, C. F. Ross, 1117 Market street, Harrisburg, Pa. Stucco, tile, 2½ stories, 32x36 feet, tile roof, hardwood and tile floors, steam heat, electric light, tile and marble work. Architect will take bids this week.

School, Walnut street, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Sacred Heart Roman Catholic Church, Rev. J. M.Steffy, 558 North Walnut street, Lanoaster, Pa. Brick, 2 stories, 52x93 feet, slate roof, pine floors, steam heat, electric light, tile work, metal lath. Architect has received bids.

Residence, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, Catharine Donnell, care of architect. Brick, 2 stories, 16x44 feet, slate roof, pine floors, hot air heat, electric light. Plans in progress.

Residence, Mechanicsburg, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, C. K. Cowper, on premises. Stone, 2½ stories, 34x28 feet, red slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Lebanon, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, E. A. Tackler, Elizabethtown, Pa. Brick, stone, 2½ stories, 40x65 feet, red tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Club, Graeffenburg, Pa. Architect, B. E. Starr, Spooner Building, Harrisburg, Pa. Owner, Robert S. Miller, Assistant Superintendent of Printing, Capitol, Harrisburg, Pa. Frame, stucco, 2 stories, 40x60 feet, slate roof, pine floors, steam heat, electric light. Plans in progress.

Store Building (alts.), 805 Hamilton street, Allentown, Pa. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner, Charles F. Fluck, 305 Hamilton street, Allentown, Pa. Mill work, maple floors, tile work, plate glass. Plans in progress.

Dairy, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, C. A. Ruth, Bethlehem, Pa. Brick, 2 stories, 25x40 feet, slate roof, concrete floors, hot water heat, electric light, refrigerators. Plans in progress.

Store and Apartment (alts. and add.), Seventeenth and Union streets, Allentown. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, J. M. Bachman, on premises. Brick, 3 stories, 20x70 feet, slag roof, hardwood floors, steam heat, electric light, tile work, copper work. Plans in progress.

Retaining Wall, Sidewalk, Curb and Gutter, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, name withheld. Reinforced concrete, 220 feet long. Architect ready for bids next week.

Garage and Sales Room, Catasauqua, Pa., $10,000. Architects, Bascom & Sieger, Allentown National Bank Building, Allentown. Owner, name withheld. Brick, steel, 1 story, 41x110 feet, slag roof, concrete floors, steam heat, electric light, plate glass. Plans near completion.

Residence (alts. and add.) to Store and Apartment, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, 1 story, 17x80 feet, slag roof, pine floors, vapor heat, electric light, tile and marble work. Architect ready for bids in one week.

Junior High School (alts. and add.), Carbondale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Carbondale School District, D. Parry, 44 Belmont street, Carbondale, Pa. Brick, stone, 3 stories, 90x150 feet, slag roof, hardwood floors, electric light, tile and marble work. Plans in progress.

Drill Shed, Carbondale, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owners, Carbondale Armory, care of architect. Brick. Sketches in progress.

Warehouse, Scranton, Pa. Architect, A. J. Ward, 1106 Grandview avenue, Scranton, Pa. Owner, R. F. Post, 44 Lackawanna avenue, Scranton, Pa. Brick, stone, steel, concrete, 2 and 3 stories, 60,000 feet floor space, prepared roof, concrete and hardwood floors, steam heat, electric light, (2) freight elevators, roof ventilators, rolled steel sash and skylights. Plans in progress.

Bank, Lititz, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Lititz Spring National Bank, G. Grabell, president, Lititz, Pa. Granite, 1 story, 30x62 feet, flat roof, tile floors, hot water heat, electric light, marble work, skylights. Architect has received bids.

Residence, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, H. J. Hiemenz, 43 North Prince street, Lancaster, Pa. Brick, 2½ stories, 26x30 feet, slate roof, hardwood floors, hot air heat, electric light. Owner has received bids.

Bank, Palmyra, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Palmyra National Bank, Eugene Bowman, on premises. Brick, stone, 3 stories, 30x68 feet, stone foundations, metal roof, marble floors, hot water heat, hollow tile. Architect has received bids.

Residence, Front and Lewis streets, Harrisburg, Pa. Architect, B. E. Starr, Spooner Building, Harrisburg, Pa. Owner, R. W. Stone, 3131 North Second street, Harrisburg, Pa. Brick, stucco, 2½ stories, 29x39 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Bank, Boiling Springs, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, Boiling Springs State Bank, care of architect. Limestone, 2 stories, 30x40 feet, composition roof, steam heat, electric light, tile and marble work, composition floors, metal lath, metal window guards, bank fixtures. Plans in progress.

Apartment (alts. and add.), Walnut street, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, Manuel J. Eby, Lancaster, Pa. Brick, 3 stories, irregular size, new partitions, hardwood floors, electric light, tile work. Revised plans in progress.

Apartment (alts. and add.), 206 East King street, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, James Bell, care of architect. Brick, 3 stories, 14½x75 feet, slate roof, cromac floors, electric light, tile work, general alterations. Owner ready for bids.

Residence, Buchanan avenue, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, L. K. Knight, Imperial Building, Lancaster, Pa. Brick, stucco, cinder concrete block, 2½ stories, 33x45 feet, slate roof, hardwood floors, stone foundations, hot water heat, electric light, tile work. Owner ready for bids. F. Bachman, Woolworth Building, will figure.

Residence, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, O. P. Althouse, care of architect. Brick, 2 stories, 16½x44 feet, tin roof, pine floors, hot air heat, electric light. Owner will take bids.

Store and Office (alts.), Fourth and Market streets, Harrisburg, Pa. Architects, Lawrie & Lappley, Cotterel Ebner Building, Harrisburg, Pa. Owner, Peter Magaro, on premises. Brick, stone, steel, 4 stories, composition roof, hardwood floors, vapor heat, electric light, tile work. Preliminary plans in progress.

Apartments (9), East Side, Lancaster, Pa. Architect, F. J. Everts, 122 East King street, Lancaster, Pa. Owner, name withheld. Brick, 3 stories, 40x40 feet, 20x40 feet, hardwood floors, electric light, tile work. Plans in progress.

Garage, 17 Mulberry street, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, F. C. Block, on premises. Brick, 1 story, 36x120 feet, slag roof, concrete floors, electric light. Plans in progress.

Garage, Scranton, Pa. Architect, A. J. Ward, County Saving Bank Building, Scranton, Pa. Owners, P. F. Lalley and Andrew Brim, 502 River street, Scranton. Brick, stone, concrete, one story, 80x160 feet, asphalt roof, concrete floors, steam heat, electric light, rolled steel sash. Architetct has received bids.

Residence, Sedgwick Farms, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Miss M. E. Warner, care of architect. Stone, 2½ stories, 58x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect will take bids in one week.

Residence, Noble, Pa. Architect, J. Fletcher Street, 129 South Fifth street. Owner, W. J. Rafetto, Noble, Pa. Architect taking revised bids due as soon as possible. J. Sims Wilson Co., 1125 Brown street; W. John Stevens, Inc., Wyncote, Pa., and E. Allen Reeves, Inc., Abington, Pa., are figuring.

Road Work, Pennsylvania. Owners, State Highway Department, Capitol Building, Harrisburg, Pa. Bids will be opened April 18th at 10 A. M. for the construction of following roads. Forms and specifications free. Plans, $2.50 per set at State Highway Department.

Armstrong County, Route 69, North Buffalo and East Franklin Township and West Kittaning Borough. Length, 30,191 feet. One course reinforced concrete. Certified check, $4,000.

Armstrong County, R-67, A-1541, Nanor Township, 10,560 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $2,000.

Blair County, R-57, Snyder Township, 17,120 feet. One course reinforced concrete. Certified check, $3,500.

Cambria County, R-276, Summerhill and Portage Townships, Wilmore and Portage Boroughs, 21,454 feet. One course reinforced concrete. Certified check, $4,000.

Chester County, R-147, West Vincent, East Nantmeal and South Coventry Townships, 21,294 feet. One course reinforced concrete. Certified check, $4,000.

Clarion County, R-214,Toby and Madison Townships and Rimbersburg Borough, 15,335 feet. One course reinforced concrete. Certified check, $3,500.

Clearfield County, R-234, A-1477, Irvona Borough, 3,905 feet. One course reinforced concrete. Certified check, $1,000.

Clearfield County, E-221, A-1729, Mahaffey Borough, 4,187 feet. One course reinforced concrete. Certified check, $1,000.

Clearfield County, R-234, Woodward Township, 6,186 feet. One course reinforced concrete. Certified check, $1,500.

Clearfield County, R-234, Houtzdale Borough, 4,092 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $1,000.

Clearfield County, A-1725, Bradford Township, 3,706 feet. One course reinforced concrete. Certified check, $1,000.

Crawford County, R-84, Hayfield, Venango and Woodcock Townships and Venango and Saegertown Boroughs, 24,289 feet. One course reinforced concrete. Certified check, $4,000.

Crawford County, R-207, East Fairfield and Wayne Townships and Cochranton Borough, 43,691 feet. Either bituminous surface course on concrete foundation and one course reinforced concrete or one course reinforced concrete. Certified check, $4,000.

Crawford-Venango Counties, R-89, Randolph and Troy Townships, Crawford County, and Plum Township, Venango County, 31,562 feet. One course reinforced concrete. Certified check, $4,000.

Erie County, R-295, Platea Borough, 7,977 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $1,500.

Indiana County, R-68, Center, Blaklick and Burrell Townships, 21,059 feet. One course reinforced concrete. Certified check, $4,000.

Erie County, A-1641, Fairview Township, 1,022 feet. Either bituminous macadam (penetration method) on a broken stone base or one course reinforced concrete. Certified check, $1,000.

Jefferson County, R-60, Reynoldsville Borough, Winslow and Pine Creek Townships, 30,342 feet. One course reinforced concrete. Certified check, $4,000.

Lackawanna County, R-322, A-1652, Scott Township, 8,648 feet. One course reinforced concrete. Certified check, $1,500.

Lawrence County, R-315, A-1774, Shenango, Slippery Rock and Wayne Townships, 33,327 feet. Either one course reinforced concrete or two course reinforced concrete. Certified check, $4,000.

Merer County, R-208, A-1758, Sandy Lake, Lake and Jackson Townships, and Sandy Lake and Soneboro Boroughs, 31,659 feet. One course reinforced concrete. Certified check, $4,000.

Mercer County, R-238, A-1754, Hickory Township, 7,528 feet. One course reinforced concrete. Certified check, $1,500.

Mercer County, R-208, A-1752, Mercer Borough, 2,190 feet. One course reinforced concrete. Certified check, $1,000.

McKean County, R100, A-1525, Foster Township, 7,827 feet. One course reinforced concrete. Certified check, $1,500.

Snyder-Juniata Counties, Routes 194 and 195, Penn, Union and Chapman Townships and Susquehanna Township, 64,056 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete, $4,000.

Venango County, R-90, A-1828, Cooperstown Borough and Jackson Township, 9,374 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $1,500.

Venango County, R-218, A-1829, Scrubgrass and Clinton Townships, 34,747 feet. One course reinforced concrete and hillside vitrified brick, $4,000.

Venango County, R-91, A-1826, Cranberry Township, 28,360 feet. Either bituminous surface concrete on concrete foundation and one course reinforced concrete, or one course reinforced concrete. Certified check, $4,000.

Venango County, R-207, Canal and Sugar Creek Townships, 17,452 feet. One course reinforced concrete. Certified check, $3,500.

Warren County, R-279, A-1811, Sugar Grove Township, 19,156 feet. Either bituminous surface course on concrete foundation and one course reinforced concrete or one course reinforced concrete. Certified check, $3,500.

Warren County, A-1846, Sheffield Township, 1,015 feet. One course reinforced concrete. Certified check, $1,000.

York County, R-216, R-333, Red Lion Borough, 8,078 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $1,500.

York County, R-333, York, Windsor and North Hopewell Townships, 13,911 feet. One course reinforced concrete. Certified check, $3,000.

York County, R-250, Newberry Township, Lewisberry Borough and Fairview Township, 18,545 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $3,500.

York County, R-230, West Manchester and Jackson Townships and Spring Grove Borough, 25,883 feet. One course reinforced concrete. Certified check, $4,000.

Viaduct and Approaches, Leiper's Quarry, Route 225, Delaware County. Owners, State Highway Department, Harrisburg, Pa. Concrete, 526 feet 6 inches long and 23 feet wide, 1,129 feet bituminous macadam surface course (penetration method) on either broken stone base or Telford stone base, course 18 feet wide. Certified check for $3,500 required. Owners taking bids due April 18th at 2 P. M.

Road Work, Pennsylvania. The following bids are due April 19th at 10 A. M.

Allegheny County, R-70, Springdale and East Deer Township, 13,365 feet. One course reinforced concrete. Certified check, $3,000.

Armstrong County, R-251, A-1455, East Franklin Township, 19,224 feet. One course reinforced concrete. Certified check, $3,500.

Beaver County, A-254, Center Township, 2,990 feet. One course reinforced concrete. Certified check, $1,000.

Blair County, R-55, Logan and Antis Townships, 33,432 feet. One course reinforced concrete. Certified check, $4,000.

Cambria County, R-62, West Carroll, East Carroll and Susquehanna Townships, Spangler and Carrolltown Boroughs, 32,322 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $4,000.

Cealrfield County, A-1724, Bradford Township ,16,074 feet. One course reinforced concrete, $3,500.

Clearfield County, R-59, Curwensville and Grampion Boroughs, Pike, Penn and Bloom Townships, 53,230 feet. One course reinforced concrete. Certified check, $4,000.

Clearfield County, R-276, Bigler Township, 11,923 feet. One course reinforced concrete. Certified check, $2,000.

Clearfield County, R-234, Coalport Borough, 4,085 feet. One course reinforced concrete. Certified check, $1,000.

Crawford County, R-207, West Mead Township, 22,608 feet. One course reinforced concrete. Certified check, $4,000.

Crawford County, R-89, East Mead and Randolph Townships, 30,022 feet. One course reinforced concrete. Certified check, $4,000.

Erie County, A-1111, Girard Township and Girard Borough, 9,822 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $1,500.

Jefferson County, R-61, Pine Creek Township, 8,724 feet. One course reinforced concrete. Certified check, $1,500.

Lackawanna County, R-365, A-1759, North Abington and Benton Townships, 24,880 feet. One course reinforced concrete. Certified check, $4,000.

Mercer County, R-208, A-1757, Sandy Lake Township and Borough, 23,233 feet. One course reinforced concrete. Certified check, $4,000.

Mercer County, R-238, A-1753, Sharpsville Borough and Hickory Township, 4,974 feet. One course reinforced concrete. Certified check, $1,000.

Mercer County, R-312, A-1750, Pine, Wolf Creek and Worth Townships, 30,726 feet. One course reinforced concrete. Certified check, $4,000.

Mercer County, A-1751, Delaware Township and Fredonia Borough, 12,953 feet. One course reinforced concrete. Certified check, $1,500.

Mercer County, R-82, Sugar Grove Township, 14,582 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $3,500.

Venango County, R-207, Frenh Creek Township, Canal Township, 27,676 feet. One course reinforced concrete. Certified check, $4,000.

Monroe County, R-165, A-1665-1666, Ross and Hamilton Townships, 18,045 feet. One course reinforced concrete. Certified check, $3,500.

Perry County, R-195, Buffalo Township and Liverpool Borough, 33,672 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $4,000.

Susquehanna County, R-174, Harford Township, 18,770 feet. One course reinforced concrete. Certified check, $3,500.

Venango County, R-218, A-1827, Irwin and Clinton Townships and Clintonville Borough, 32,167 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $4,000.

Venango County, A-1856, Cornplanter Township, 15,560 feet. One course reinforced concrete. Certified check, $3,000.

Warren County, A-1812, Freehold Township, 18,238 feet. Either bituminous surface course on concrete foundation and one course reinforced concrete or one course reinforced concrete. Certified check, $3,500.

York County, R-190, Wellsville Borough, Washington and Warrington Townships, 18,340 feet. One course reinforced concrete. Certified check, $3,500.

York County, R-216, Chanceford and Windsor Townships, 25,145 feet. One course reinforced concrete. Certified check, $4,000.

York County, R-332, Springgarden, Windsor and Springettsbury Townships, 26,600 feet. One course reinforced concrete. Certified check, $4,000.

Pennsylvania Contracts Awarded

Theatre, Stores, Offices and Apartment, Mt. Carmel, Pa., $200,000. Architect, William H. Lee, 32 South Seventeenth street. Owners, Chamberlain Amusement Co., Shamokin, Pa. Brick, steel, concrete and terra cotta, 3 stories, 100x150 feet. Contract awarded to John R. Wiggins Co., Inc., Eighteenth and Cherry streets, Philadelphia.

Residence (alts.), Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Robert L. McLean, Lansdowne, Pa. General alterations and additions, heating and lighting extensions, pine floors. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Residence, Glenside, Pa. Architect, Horace Trumbauer, Land Title Building. Owner, E. Nelson Weir, Glenside, Pa. Stone, 2½ stories, 36x27 feet, shingle roof, oak and pine floors, tile work, bond (heating, lighting and plumbing reserved). Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Memorial Science Building, Locust and Monacacy streets, Bethlehem. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian College and Theological Seminary, care of architect. Brick, steel, 3 stories, 40x70 feet, slate roof, hardwood floors, hollow tile, metal lath, hot water heat, electric light, tile work, roof ventilators, concrete stairs. Contract awarded to F. F. Speck Const. Co., 51 W. Wall street, Bethlehem, Pa.

Residence and Garage, Noble, Pa., $25,000. Architect, C. R. Henricks, care of owner. Owner, Harry Sarfert, Noble, Pa. Stone, 2½ stories, 26x38 feet and 20x22 feet, slate roof, cement work, hardwood floors, hot water heat, electric light, tile work. Contract awarded to W. John Stevens, Inc., Wyncote, Pa.

Residence (alts.), Ardmore, Pa. Architects, Bailey & Bassett, 421 Chestnut street. Owner, T. Bailey, Ardmore, Pa. Remodeling exterior of house, hollow tile and plaster, tile work, plumbing. Contract awarded to Gray Brothers, Rosemont, Pa.

Store (alts.), 526 Hamilton street, Allentown, Pa. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Samuel Roth, 645 North Second street, Allentown, Pa. General interior alterations, flush bulks, plate glass. Contract awarded to Harvey E. Gery, 1425 Union street, Allentown, Pa.

Store Building, Mahanoy City, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Harry Levitt, Shenandoah, Pa. Brick, 2 stories, 25x125 feet, composition roof, pine floors, steam heating, electric lighting. Contract awarded to A. L. Graff, Tamaqua, Pa.

Residence, Merion, Pa. Architects, Thomas, Martin & Kirkpatrick, 130 Otis Building. Owner, Edwin S. Schenck, Merion, Pa. Stone, 2½ stories, 57x28 feet and 14x26 feet, oak and pine floors, hot water heat, electric lighting. Contract awarded to Alfred James, 5000 Sansom street.

Store and Dance Hall, Luzerne, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, C. Spiegel, Luzerne, Pa. Brick, steel, 2 stories, 40x80 feet, corrugated roof, hardwood floors. Contract awarded to William Whitesell, Westmoore, Pa.

Residence, Taylor, Pa. Architect, Morris & McHale, Mear Building, Scranton, Pa. Owner, J. A. Powell, Taylor, Pa. Frame and stucco, 2 stories, 32x36 feet, tile roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Taylor Duryea Lumber Co., Taylor, Pa.

Bank (alts.), Wilkes-Barre, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Union Savings Bank & Trust Co., Wilkes-Barre, Pa. New front, hardwood floors, steam heat, electric light, tile work. Contract awarded to Shepherd Const. Co., Miners' Bank Building, Wilkes-Barre.

Bank (alts. and add.), Honesdale, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, Dime Bank of Honesdale, care of Mr. Wright, cashier, Honesdale, Pa. Limestone, brick, 1 story, 50x65 feet, tin roof, marble floors, electric light, marble work, metal lath, metal window guards, bank fixtures. Contract awarded to Shepherd Const. Co., Miners' Bank Building, Wilkes-Barre, Pa.

Residences (alts.), Abington, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, E. Raymond Ambler, Abington, Pa. Stone and frame, 2½ stories, 55x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Stahl & Walton, Willow Grove, Pa.

Office Building, Danville, Pa., $25,000. Architect, John E. Bullock, 34 South Seventeenth street, Philadelphia. Owners, Jouvand & Lavigne, Inc., Danville, Pa. Brick, steel and cut stone, 2 stories, 65x35 feet, slag roof, cement and concrete floors, plumbing, rolled steel sash, iron work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

New Jersey Construction News

Residence, Haddonfield, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, R. W. Wythes, Haddonfield, N. J. Frame and shingle, 2½ stories, 26x36 feet, shingle roof, hardwood floors, electric lighting, heat undecided. Plans in progress.

Residence, Pitman, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Peter S. Scott, Pitman, N. J. Brick, 2½ stories, 30x40 feet, wing 15x20 feet, slate roof, hardwood floors, electric light, heat undecided. Plans in progress.

Residence, Merchantville, N. J. Architect,

Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, E. H. Robinson, care of architect. Frame, shingle and stucco, 2½ stories, 30x40 feet, wing 15x20 feet, shingle roof, hardwood floors, electric light. Plans in progress.

Passenger Station, Fourteenth street, Ocean City, N. J. Architect, Samuel Wagner, Reading Terminal, Philadelphia. Owners, Atlantic Railroad, Philadelphia and Reading Railroad, Reading Terminal. Brick, 1 story, 32x15 feet, platform 111x30 feet, asbestos built-up roof, concrete floors, electric lighting, iron work. Owner taking bids due April 7th.

Store and Apartments, Merchantville, N. J. Architects, Platt & Fields, 1524 Chestnut street, Philadelphia. Owner, William N. White, Merchantville, N. J. Brick and steel, 2 stories, 40x50 feet, slag roof, pine and oak floors, metal lath, iron work. Architects taking bids due April 7th. C. C. Edelman, 1627 Sansom street, is figuring.

Exposition Buildings (2), Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, Interstate Fair Association, care of architect. Steel, tile, stucco, 2 stories, 200x200 feet, 70x145 feet, asbestos shingle roof, concrete floors, electric light, rolled steel skylights, terra cotta. Newton A. K. Bugbee, 206 East Hanover street, Trenton, N. J., taking sub-bids.

Laundry (add.), East State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton Rough Dry Laundry, East State street, Trenton. Brick, 1 story, 25x100 feet, slag roof, concrete floors, electric light, skylights, roof ventilators. Architect taking bids due April 7th. J. H. Morris, Broad and Hudson streets; N. Milgaten, 550 South Warren street; Harrison & Fisher, S. W. Mathers & Son, Greenwood and Canal streets; Edward LaRue, 53 South Hermitage avenue; Fred R. Parker, 327 Calhoun street; Burton & Burton, American Mechanics' Bank Building, all of Trenton, N. J., are figuring.

Residence, Bellevue, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Joseph Brearley, 403 Market street, Trenton, N. J. Brick, frame, 2½ stories, 24x44 feet, slate roof, hardwood floors, hot water heat, electric light. Architect taking bids due April 3rd. Edward LaRue, 53 South Hermitage street; S. W. Mather & Son, Greenwood and Canal streets; Thomas M. Day & Son, 1109 Greenwood avenue; Burton & Burton, American Mechanics' Bank Building; J. H. Morris, Broad and Hudson streets; I. H. Clayton, American Mechanics' Bank Building; Harrison & Fisher, H. J. Barnett, 401 Johnson street, and Jackson Brothers, Trenton, figuring.

School Buildings, Scudder's Farm, near Trenton Junction, N. J. Architects, Guilbert & Betelle, Newark, N. J., and A. H. Moses, Camden, N. J. Owners, School Commissioners of New Jersey, State House, Trenton. Lowest bids submitted by Wills, Bill & Co., 1706 Sansom street, Philadelphia, $279,430. Heating, Dickman Heat & Power Co., Camden, N. J., $34,332.23. Electric work, Buzby & Thomas, $10,700. Plumbing, Jenigan & Peoples Co., Newark, N. J., $28,513. Sewage Disposal Plant, Simpson Brown Co., 90 West street, New York City, $16,180.

Residence, Moorestown, N. J. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, P. B. Lovell, Moorestown, N. J. Frame, 2 stories, 22x35 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Owner is taking bids.

Residence, Pennington, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, C. Windham, Pennington, N. J. Frame, 1½ stories, 24x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Beechwood avenue, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Miss Gertrude Woolsey ,State House, care of architect. Frame, 1½ stories, 24x40 feet, hardwood floors, hot water heat, electric light. Plans in progress.

Store and Office (add.), Montgomery and Hanover streets, Trenton. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Fitz Charles Dry Goods Co., on premises. Brick, 5 stories, 25x62 feet, slag roof, pine floors, tile, marble and terrazzo work (heating, plumbing and electric work reserved). Revised plans in progress.

Residence, Morrisville Heights, Trenton, N. J. Architect, Walter Hankin, 39 West State street, Trenton, N. J. Owner, William R. Dollon, Trenton, N. J. Frame, 2½ stories, 36x24 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect will be ready for bids April 5th.

State Hospital (add.), Trenton, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, State Capitol, Trenton, N. J. Owners, State of New Jersey, Warden Natchley, on premises. Steel, 1 and 2 stories, irregular size, slate roof, composition and hardwood floors, electric light, tile and marble work, hollow tile. Ready for bids due April 19th.

Residence (alts. and add.) and Garage, Ivy Court, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Charles Swan, Ivy Court, Trenton, N. J. Brick, 1 story, 18x18 feet, slate roof, concrete floors, electric lighting. Architect will be ready for bids April 7th.

Caddy House and Garage, Tavistock, N. J., near Haddonfield, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Tavistock Country Club, on premises. Frame, 1 story, irregular in size. Contract awarded to H. G. Hinchman, Camden, N. J.

Delaware Construction News

Apartment and Store, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, T. E. Coletta, care of architect. Brick, terra cotta, 3 stories, 85x25 feet, tile roof, hardwood floors, hot water heat, electric light, tile, marble and terrazzo work, hollow tile, roof ventilators, metal weather strips, metal bulks. Architect has received bids.

Stores (2), 144-46-48 Main street, Newark, Del. Architect, J. A. McKibbin, Industrial Trust Building, Wilmington. Owner, I. Marritz, care of architect. Brick, 1 story, 8x20 feet, new front, plate glass, electric light, tile work. Architect has received bids.

Home (Power House, Laundry, Landscape Grading and Sewage Disposal), Newtown Square, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, Dunwoody Home, care of architect. Fireproof construction, 3 stories, 280x30 feet, 26x40 feet, tile and hardwood floors. Architect taking bids due April 7th.

Church, Eighteenth and Boulevard, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Hanover Church, Charles H. Bohner, Wilmington, Del. Stone. Sketches in progress.

Parsonage and Community Building (alts. and add.), Harris street, Wilmington. Architect, private plans. Owners, Harris Street Methodist Episcopal Church, on premises. Brick, cut stone, 1 story and basement, 90x50 feet, slate roof, oak floors, hot water heat, electric light, tile and marble work, sheet metal work. Owner has received bids.

The Truscon Steel Company, B. J. Sigmund, manager, have moved their offices from the Commonwealth Building to 1432 South Penn Square, Philadelphia. The Truscon Steel Company manufactures and sells steel sash, steel buildings, metal lath, reinforcing steel, floretyle, hy rib and steel joists.

The Truscon Laboratories, George J. McLaughlin, manager, have moved their offices from the Commonwealth Building to 1432 South Penn Square, Philadelphia. The Truscon Laboratories manufacture waterproofing, dampproofing and floor hardener.

Bowden Construction Company, Builders, formerly of Presser Building, have moved to 1935 Chestnut Street, Philadelphia.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 27, 1922. Sealed Proposals will be opened in this office at 3 P. M., May 1, 1922, for the construction of twenty-six buildings for the U. S. Veterans' Hospital, Tuskegee, Alabama, and separate bids for the mechanical equipment for the same, except elevators and lighting fixtures; all in accordance with drawings and specifications, which may be obtained at this office on or after March 31, 1922, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Daily Building News

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1530 Chestnut St., Philadelphia

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
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Warren-Knight Co. .....136 N. 12th St., Phila.
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April 12, 1922

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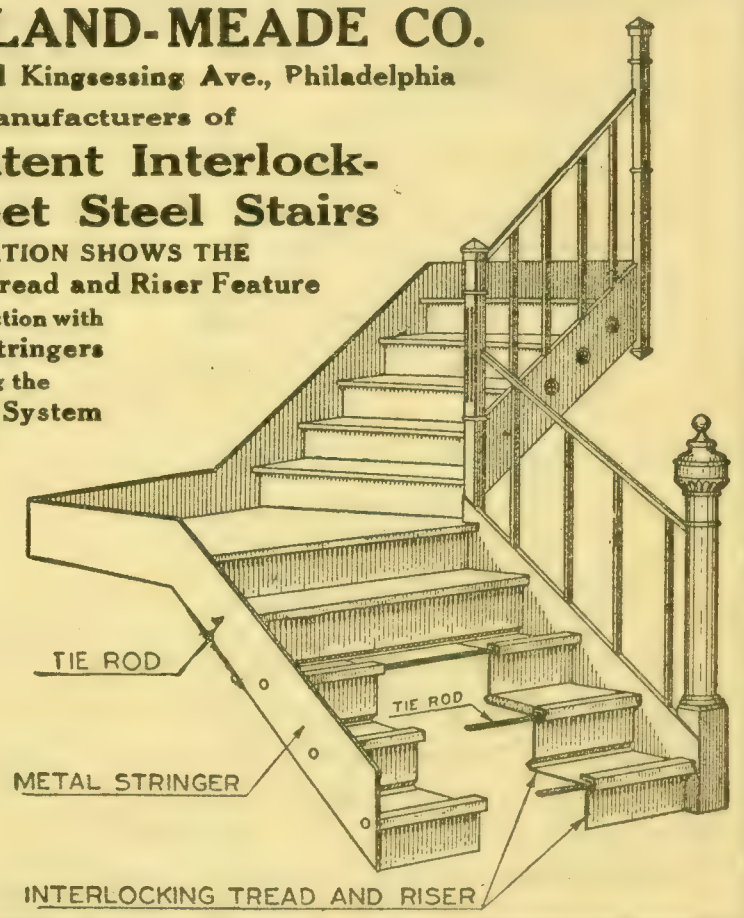


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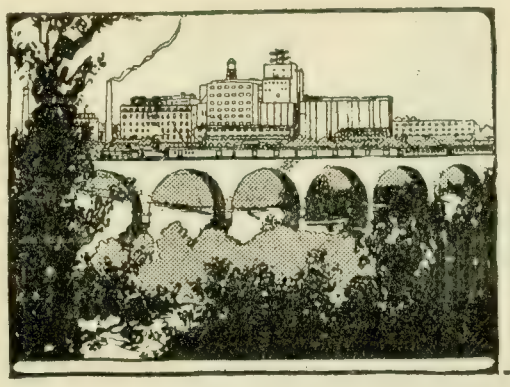
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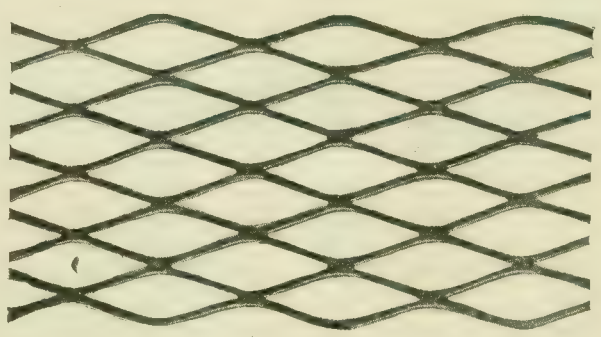
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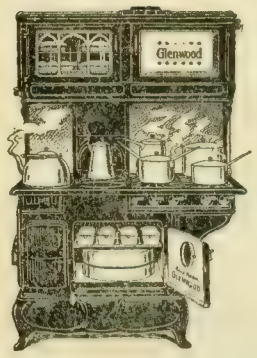
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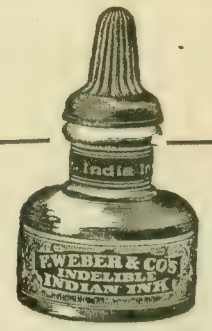
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VOLUME XXXVII
Number 15

PHILADELPHIA
April 12, 1922

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
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BY

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Store, Club and Social Rooms, 3306-08 Germantown avenue. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Tioga Business Men's Association, care of architect. Brick and steel, 2 stories, 40x110x125 feet, slag roof, maple and cement floors, electric light. Revised plans in progress.

Sherwood Exchange (alts. and add.), Fifty-seventh and Chestnut streets. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Architect taking bids due April 14th.

Building (alts.), Letitia street Building, rear of 121 Chestnut street. Architect, A. H. Brockie, 254 South Fifteenth street. Owners, George McFadden & Bro., 121 Chestnut street. New skylights (steel), sheet metal work, painting, glazing. Architect taking bids.

Residences (24), Fifty-sixth and Gainor's Road, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, brick and stucco, 2 stories, (22) 18x34 feet, (2) 18x46 feet, tile, slate, tin and slag roof, hardwood floors, hot water heat, electric light, tile and marble work, garages in basement, cement work. Clarence E. Fox, Fortieth and Lancaster avenue, is taking sub-bids.

Church (alts.), Thirteenth and Chestnut streets, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, St. John's Roman Catholic Church, care of Rev. F. X. Wastle, on premises. Ventilating system in basement, brick work, painting, glazing, iron work. Architects subletting and building.

Residence and Store (add.), 3415 Haverford avenue, $2,500. Architect, private plans. Owner, D. Iero, 519 Christian street, Philadelphia. Brick, 1 story, 22x25 feet, slag roof, yellow pine floors. Owner will build.

Nurses' Home and Rebuilding of Green House, Thirty-fourth and Pine streets. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospital, C. L. Furbush, M. D., Director, City Hall 584, Philadelphia. Brick, cut stone, steel and terra cotta, 5 stories, 39x46 feet, slag roof, granolithic and pine floors, hollow tile, metal lath, roof ventilators, metal weather strip, waterproofing, iron work and stairs, marble and terrazzo (heating, lighting and plumbing separate bids). Owners taking bids due April 20th at noon.

Recreation Centre, Wakeling, Rutland, Dyre and Luige sts., Frankford, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut st., Philadelphia. Owners, Department of Public Works, Bureau of Recreation. Brick and cut stone building, Barrett roof, bronze work, glazing, grandstand, running track, cement work, painting, hardware (lighting and plumbing separate bids). Owners will be ready for bids in a few days.

Office Building, Juniper and Locust streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Louis J. Cahan, Hotel St. James, Thirteenth and Walnuts sts. Stone, steel, concrete, brick, terra cotta, limestone, 18 stories, 53x230 feet, electric lighting, steam heating, elevators, tile, marble and terrazzo work. Plans in progress.

Office Building, Northwest Corner Broad and Locust streets, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Stone, steel, concrete, brick and terra cotta. Preliminary plans in progress. Too early for details.

Hospital Building (add.), Broad and Ontario streets, Philadelphia. Architect, Amos W. Barnes, 10 South Eighteenth street. Owners, Samaritan Hospital, John McConnell, superintendent, premises. Brick, front add., 4 stories, 43x76 feet, rear add., 4 stories, 54x109 feet, promenade tile and slag roof, cement and linoleum floors, elevators, dumb waiters, electric work, tile and marble work. Plans about completed. Architect will be ready for bids in ten days.

Building, 1620 Vine street, Philadelphia. Architect, Richard A. Kearns, Jr., 10 South Eighteenth street, Philadelphia. Owners, Flood & Quinn, Sixteenth and Cherry streets, Philadelphia. Brick, 2 stories, 16x180 feet, slag roof, steam heating, electric lighting. Architect will be ready for bids in one month.

Apartments and Garage (alts. and add.), 437 North Sixty-third street. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, C. Cutler, care of architect. Brick, 2 stories. Plans in progress.

Store and Apartments (alts.), 1819 North Thirty-first street. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, H. Abrams, on premises. General alterations, electric work, flush bulks. Owner is ready for bids.

Theatre and Office Building, Southwest Corner Sixteenth and Market streets, Philadelphia. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owners, William Fox Film Corporation, 126 West Forty-sixth street, New York City. Brick, steel, reinforced concrete, stone, 12 stories, 129x129 feet, composition roof, concrete floors, steam heat, electric light, hollow tile, metal lath, elevators. Architect will be ready for bids in three weeks. Agents, Greenfield & Taube, Penn Square Building.

Church, Midvale avenue, near Ridge ave-

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nue, Falls of Schuylkill, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Bridget's Roman Catholic Church, Right Rev. Monsignor W. J. Walsh, premises. Granite, stone, steel and brick. Plans in progress. Too early for details.

Town Hall, Germantown and Chelten avenues, Germantown, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, City of Philadelphia, Department of Public Works, City Hall. Brick, steel and concrete, 3 stories, 80x150 feet, electric light, steam heating. Plans in progress. Will be ready for bids in two months.

Nurses' Home (add.), Thirty-fourth and Pine streets, Philadelphia. Architect, P. H. Johnson, 1713 Sansom street. Owners, Department of Public Health, Bureau of Hospitals, C. L. Furbush, M. D., 584 City Hall. Owners taking bids due April 20th at noon.

Cold Storage Boxes, Second and Luzerne streets, also sterilizing apparatus. Plans from 584 City Hall. Bids due April 18th.

Lodge Hall, 2850 Frankford avenue. Architect, Karl F. Otto, 5802 North Fifth street. Owners, Ioska Tribe, I. O. R. M., No. 379, on premises. **Brick and steel**, 2 stories. Revised plans in progress.

Home for Aged, 957 North Franklin street, Philadelphia. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owners, Uptown Home for the Aged, Joseph Kaplan, chairman of Building Committee, 1312 North Sixth street, Philadelphia. Brick, 3 stories, 90x50 feet, slag roof, pine and composition floors, dumb waiter, steam heat, electric light, tile and marble work, iron work. Plans in progress.

Bank Building (alts.), 4414-16 Germantown avenue, Philadelphia. Architect, Thomas B. Lippincott, 11 South Sixteenth street. Owners, Wayne Junction Title & Trust Co., 4401 Germantown avenue. General alterations to convert present building to bank building. Owners will take bids in June.

Residence, Fifty-third and Woodbine avenue, Philadelphia, $18,000. Architect, Thomas B. Lippincott, 11 South Sixteenth street. Owner, Isaac Levin, Bulletin Building, Philadelphia. Hollow tile and stucco, 2½ stories, 46x33 feet, Spanish tile roof, electric light, hot water heat, composition oak and pine floors, tile and marble work, iron work. Owner is taking sub-bids.

Bank Building, Broad and Federal streets, Philadelphia. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, Federal Trust Co., Broad and Federal streets. Stone, brick, cut stone, steel and concrete, 3 stories, 71x85 feet, slag roof, cork and cement floors, metal lath, roof ventilators, vapor heat, electric light, tile, marble and artificial stone, hollow metal sash and doors, bronze work, painting, glazing. Architect taking sub-bids due April 18th.

Office Building, Southwest Corner Sixteenth and Walnut streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Roy A. Heymann, Widener Building, Philadelphia. Brick, stone, steel, terra cotta, concrete. Plans in progress. Too early for details.

Memorial Hospital, Fox Chase, Philadelphia, $1,000,000. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Anna T. Jeannes Memorial Hospital, care of architects. Will consist of power plant, administration building, domestics' building, (2) pavilions, and altering present mansion into nurses' home. Working plans in progress. Architects will be ready for bids in six weeks.

Church and Sunday School (add.), Wyoming avenue and A street, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Wyoming Avenue Baptist Church, on premises. Stone, 75x75 feet, slate roof, electric lighting. Plans in progress. Will be ready for bids in four weeks.

Sunday School (alts.), Germantown and Mount Pleasant avenues. Architect, private plans. Owners, Mt. Airy Presbyterian Church, Rev. John Calhoun, 33 East Mount Pleasant avenue, Germantown, Philadelphia. Stone, brick and terra cotta, 2 stories, 53x69 feet, slag roof, pine, composition, cement and linoleum floors, metal lath, dampproofing, steam heat, electric light. Owners taking bids due April 17th.

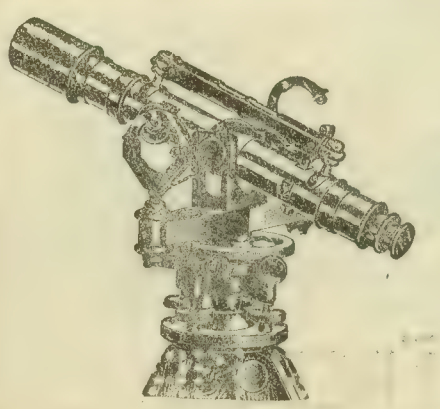
Convent, Twenty-fourth and Lehigh avenue, Philadelphia. Architects, Henry D. Dagit Sons & Co., 10 South Eighteenth street, Philadelphia. Owners, St. Columba's Roman Catholic Church, care of Rev. Thomas J. Ryan, premises. Brick, cut stone and steel, 3 stories, 25x120 feet, slate roof, Carey flexible roof, oak, maple and composition floors, metal lath, ornamental iron work, floor hardener, tile and marble, steam heat, electric light, dumb waiter. Architect taking revised bids due April 15th.

Residence, St. Martin's, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, Arthur C. Colahan, 7810 Lincoln Drive. Stone, 2½ stories, 28x53 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. J. M. Zane, Land Title Building, will build.

Mill Building, Mulberry street, near Wakeling street, Philadelphia. Architect, Edwin F. Bertolette, 721 Walnut street, Philadelphia. Owner, Lanne Allen Locke, 4949 Mulberry street. Brick and steel, 2 stories, 48x32 feet, slag roof, maple and concrete floors, rolled steel sash, Bond, iron work. Architect and owner taking bids due as soon as possible.

Moving Picture Theatre, 4317-19 Walnut street, Philadelphia. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, James Richman Realty Co., Thirteenth and Chestnut streets. Brick, steel and concrete, 50x125 feet, slag roof, cement floors, steam heat, electric light, tile, marble and terrazzo, kalamein doors, roof ventilators, terra cotta. Architect taking bids due April 19th.

Recreation Centre, Chelten avenue, Anderson, Woodlawn and Ardleigh streets, East Germantown, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street.. Owners, Department of Public Welfare, Bureau of Recreation, B. H. Warburton, Director, 595 City Hall, Philadelphia. Grading, fill, sod-



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ding, painting, terracing, coping, concrete work, curbing, sidewalks, iron fence and gates. Owners taking bids due April 18th.

Factory (add.), Chelten avenue and Baynton street, Germantown. Consulting engineer, Edward G. McGannon, Perry Building, Philadelphia. Owners, Dearnley Brothers' Worsted Spinning Co., Inc., premises. Concrete, brick and steel, 3 stories, 74x98 feet, slag roof, concrete and maple floors, rolled steel sash, kalamein doors, Bond, floor hardener (heating, lighting, plumbing and elevators reserved). Owners taking bids due April 14th.

Storage (add.), 1422 North Broad street, $5,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Mercantile Club, on premises. Brick, fourth and fifty story add., 26x64 feet, slag roof, yellow pine floors, electric light. Owner will build.

Residences (5), Pulaski, North of School Lane, $25,000. Architect, private plans. Owner, M. S. Oberholtzer, 5524 Pulaski avenue. Brick, 2 story, 16x57 feet, 16x32 feet, 13x25 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (11), Louden, Bellfield and Windrim avenues, $51,750. Architect, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, John E. Rafferty, 4128 North Broad street, Philadelphia. Brick, 2 and 3 stories, 36x22 feet, 3 stories, 39x16 feet, 16x26 feet, and 2 stories, 15x31 feet, 11½x11 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

Garage, South side Pacific street, East of Kensington avenue, $5,500. Architect, private plans. Owner, Harry L. Murray, 2451 Cedar street, Philadelphia. Brick, 1 story, 138½x36 feet, slag roof, cement floors, steam heat, electric light. Owner will build.

Residences, 5801-03 North Sixth street, Philadelphia, $5,000. Architect, private plans. Owner, Walter S. Bauer, 5802 North Fifth street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Garage, East side Edmund street, South of Princeton street, $2,500. Architect, private plans. Owner, John J. Brophy, 7028 Tulip street, Philadelphia. Brick, 1 story, 75x35 feet, slag roof, cement floors. Owner will build.

Residences (8), Knorr street, West of Jackson street, $22,000. Architect, private plans. Owner, Chris Gercke, 6938 Tulip street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Store and Storage (alts.), 1714-16 Ridge avenue, $7,500. Architect, private plans. Owner, William G. Adams, 224 East Tabor Road, Philadelphia. General interior alterations. Owner will build.

Factory (add.), West side Rosehill, South of Cambria, $2,000. Architect, private plans. Owner, G. S. Cox, on premises. Brick, 1 story, 16x60 feet, yellow pine floors. Owner will build.

Residences (4), West side Sherman street, North of Carpenter, $9,500 each. Architect, private plans. Owners, Carson Brothers, 5601 Germantown avenue, Philadelphia. Stone, 2 stories, 24x42 feet, 10x5 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

Garage and Residence (add.), 5811 Torresdale avenue, $8,000. Architect, private plans. Owner, Charles Fullmer, on premises. Brick, 2 stories, 20x25½ feet, slag roof, cement and yellow pine floors, hot water heat, electric light. Owner will build.

Building (alts.), 535 Chestnut street, Philadelphia, $8,000. Architect, Louis Levi, 1116 Real Estate Trust Building. Owner, B. Miller, 604 South Second street. General alterations. Owner will build.

Garage and Shop and (alts.) to Building, 1585 North Fifty-second street, $5,800. Architect, private plans. Owner, H. Sadjian, on premises. Brick, 1 story, 23x15 feet, 21x49 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (14), East and West side Ditman, South of Princeton, $4,000 each. Architect, private plans. Owner, James W. Orr, 3532 Kensington avenue, Philadelphia. Brick, 2 stories, 16x43 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Junior High School, Thirteenth and Louden streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Lowest bidders: P. H. Kelly Const. Co., 1713 Sansom street, $623,750; Wark Co., 231 South Broad street, $639,071. Electric, George Woodward, Jr., 1723 Sansom street, $30,920. Heat, Austin, Gorham & McIlvaine, 1816 Ludlow street, $78,337. Plumbing, D. J. Keating, 2042 Rittenhouse street, $30,444.

Junior High School, Fifty-fourth and Warrington avenue. Owners, Board of Education, Nineteenth above Chestnut street. Lowest bidders: P. H. Kelly Const. Co., 1713 Sansom street, $639,500; Wark Co., 231 South Broad street, $652,591. Plumbing, D. J. Keating, 2042 Rittenhouse street, $30,888. Heating, Austin, Gorham & McIlvaine, 1816 Ludlow street, $78,384. Electric work, Ross Electric Const. Co., Beach and Brown streets, $31,300.

Elementary School, Sixty-fifth and Lansdowne avenue, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Lowest bidders: Sinclair & Grigg, Medical Arts Building, $385,800; Ketcham & McQuade, 1029 Brown street, $392,346. Electric, Walker Kepler Co., 531 Chestnut street, $15,845. Heating, McClintock Brothers, 5216 Webster street, $43,500. Plumbing, N. Connolly, 1404 North Eighteenth street, $18,333.

River Wall, Fairmount Park, Philadelphia. Owners, Park Commissioners, 127 City Hall, Philadelphia. Lowest bidders on 4 items: Seeds & Derham, 6314 Wissahickon avenue, $36.75, $27.85, $12.10, $13.85; Engineering Const. Corp., Commercial Trust Building, $48.75, $36.00, $15.50, $12.00.

Comfort Building, Cobb's Creek Park, Philadelphia. Owners, Park Commissioners, 127 City Hall, Philadelphia. Lowest bids submitted by Farrell Roth Const. Co., 122 Dia-

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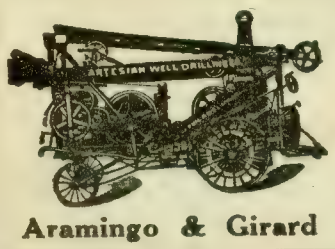
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mond street, $5,000; George B. Clayton, 1817 North Twentieth street, $5,539.

Mill Building, West of Twenty-first street, between Naudain and Rodman streets. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Roosevelt Worsted Co., on premises. Architects taking bids due April 20th at noon.

Extensions to Farm Buildings and Cottages, Byberry, Phila. Architect, John P. B. Sinkler, 1211 Chestunt street. Owner, Department of Public Health, 584 City Hall. Brick, cut stone, stucco and steel, 2 stories, 1 story, 80x12 feet, tin and shingle roof, pine and composition floors, metal lath, iron work. Lowes bidders: Geo. H. Evans, Inc., 109 N. 13th street, $19,830; E. C. Durell, 1716 North Twenty-fourth street, $20,484. Plumbing, Bulman Bros., 5th and Cumberland streets, $2,966. Heating, L. J. Sommers & Sons, 2436 Brown street, $3,467. Electric, Walker Kepler, 431 Chestnut street, $1,125.

Y. W. C. A. Building, Sixteenth and Catherine streets. Architect, Morris & Erskine, 1716 Cherry streets. Owners, Y. W. C. A., on premises. Brick and steel, 3 stories, 73x126 feet, asphalt roof, concrete, pine and maple floors, metal lath, rolled steel sash, copper skylights, iron work, (heating, lighting, plumbing and elevators, reserved). Architect taking revised bids due April 14th.

Morgue, Second and Luzerne streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street. Owner, Department of Public Health. 584 City Hall. Lowest bidders: J. B. Kelly, 2313 Walnut street, 29,678; McCloskey, Inc., 1620 Thompson street, $31,131. Plumbing, L. J. Sommer &Sons, 2436 Brown street, $2,557. Heating, Items 1 and 2, Chas. Monday & Co., 1318 Olive st., $7,990 and $4,897. N. Connolly, 1404 N. 18th street, $9,898 and $2,886. Electric work, Items 1 and 2, J. F. Buchanan Co., 1719 Chestnut street, $1,135, $638. Walker Kepler, 431 Chestnut street, $1,375, $553.

Office Building, Seventh and Chestnut sts., Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street. Owners, Washington Square Realty Co., care of architects. Brick, granite and steel, 3 stories, and basement, 135x50 feet, slag roof, cement and maple floors, metal lath, elevators, terra cotta, tile, marble and terrazzo. Revised plans in progress.

Office Building, Eighth and Appletree sts., Philadelphia. Architect, Magaziner and Eberhard, 603 Chestnut street, Philadelphia. Owner, Samuel Laveson, 237 N. 6th street, Philadelphia. Brick, steel, concrete and terra cotta. Plans in progress. Architects will take bids in about two weeks.

Building (alts.), 1208 Arch street, Philadelphia. Architect, private plans. Owner, H. D. Reese, 1207 Filbert street, Philadelphia. General alterations, refrigeration, insulation, etc. Work contemplated.

Store and Office Building, 1516 Chestnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Geo. Graham, care of Acrhitect. Architect taking bids due April 19th at 1 P. M.

Rothschild Memorial Hall and Sisterhood Building, Fifty-eighth and Walnut streets, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia . Owner, Edward L. Rothschild, Atlantic City, N. J. Brick, precastone and steel, 2 stories, 61x22 feet, and 5030 feet, slate roof, cement and maple floors, metal lath, roof ventilators, metal weatherstrip, tile and marble work, (heating, lighting and plumbing, reserved), iron work. Architect taking bids due April 24th.

Store and Residence, (alts. and add.), Allison & Lansdowne avenues. Architect, Taylor and Pernico, 6220 Ellsworth street. Owner, Frank Braverman, on premises. Brick and steel, 1 story, 16x16 feet, slag roof, pine floors, heating repairs, electric work, painting, glazing. Owners taking bids due April 14th.

Theatre, South Third street, Phladelphia. Architect, Eugene A. Stopper, 1507 Arch street, Philadelphia. Owner, Franklin Theatre, on premises. Architect taking bids due April 18th at noon.

Garage, 8836 Germantown avenue, Chestnut Hill, Philadelphia. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, Henry A. Laughlin, on premises. Architect taking bids due April 14th.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Twenty-third and Westmoreland streets, Philadelphia. Architect, private plans. Owner, Edward G. Budd, Twenty-fifth and Hunting Park avenue. Brick, steel, 1 story, saw tooth construction, 15,000 square feet, slag roof, cement floors, steam heat, electric lighting, rolled steel sash. Contract awarded to F. V. Warren Co., 132 South Seventeenth street, Philadelphia.

Alumni Memorial Administration Building, Bethlehem, Pa. Architects, Theodore Fisher and James Burley, 363 Lexington street, New York City. Owners, Lehigh University, Bethlehem, Pa. Stone, limestone, brick and steel, 2½ stories, 184x92 feet, asbestos, asphalt and slate roof, cement and maple floors, hollow tile, metal lath, waterproofing, iron work, tile and marble and terrazzo, hollow metal sash, electric work. Contract awarded to Irwin & Leighton, 126 N. 12th street, Philadelphia.

Slaughter House and Garage, 2838-44 North Twenty-eighth street, $27,000. Architect, David D. Weitz, 840 Real Estate Trust Building, Philadelphia. Owner, S. Weitz, care of architect. Brick and steel, 1 story, 62x72 feet, and 1 story, 91x18 feet, slag roof, cement floors, hollow tile, waterproofing, architectural terra cotta, bond, steam heat, electric lighting. Contract awarded to Samuel Saidell, 5749 Walnut street.

Store and Apartments (alts. and add.), 2125 North Broad street, $13,000. Architect, Harry

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Raech, 2719 South Smedley street. Owner, John C. Kimmerle, 2127 North Broad street. Brick, 3 stories, general alterations, slag roof, mill work, iron work. Contract awarded to P. Haiback Cont. Co., Twenty-sixth and Thompson streets.

Store, 334-336 North Thirteenth street, Philadelphia, $7,500. Architect, private plans. Owner, Philip J. Collins, 5500 Lansdowne avenue, Philadelphia. Brick, 2 stories, 35x45 feet, slag roof, yellow pine floors, steam heat, electric light. Contract awarded to Frank Kaiser, 1522 South Sixth street, Philadelphia.

Residence and Store (alts.), 713 South street, $3,000. Architect, private plans. Owner, Mr. Strubowitz, 711 South street, Philadelphia. General interior alterations. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Cooling House, East side Meadow street, South of McKean, $2,200. Architect, private plans. Owner, E. E. Brown, on premises. Brick, 1 story, 32x49½ feet, galvanized iron roof, cement floors. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Church and Rectory, Twenty-fourth and Wolf streets, Philadelphia, $71,200. Architect, R. R. Schumann, 202 West State street, Trenton, N. J. Owners, Holy Ghost Greek Catholic Church, care of Rev. Andrew Zymko, 1931 West Passyunk avenue, Philadelphia. Stone and brick, 1 story and basement, 47x129 feet, and brick, 2½ stories, 18x60 feet, slate roof, hardwood and concrete floors, steam heat, electric lighting, tile work, steel work. Contract awarded to Penn Const. & Eng. Co., 3840 Spring Garden street, Philadelphia.

Belfield Playground, Chew, Twenty-first and Conlin streets. Owners, Department of Public Welfare, 595 City Hall. Concrete work, fill, grading, sodding, drainage, iron fence, iron and steel work, terra cotta pipe, building, 1 story, 47x27 feet, shingle roof, waterproofing, terra cotta tile and stucco, concrete floors, metal lath. Contract awarded to Mitchell Houseworth, 2512 North Twenty-seventh street, Philadelphia, $30,917.

Belfield Recreation Centre, Conlin, Twenty-first, Nedro and Beechwood streets, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Grading, fill, sodding, curbing, sidewalks, concrete work, baseball cage, painting, drinking fountains, convenience, iron fence and gates, terra cotta pipe. Contract awarded to Mitchell Houseworth, 2512 North Twenty-seventh street, Philadelphia, $35,897.

Water Bureau Headquarters, Twenty-eighth and Cambria streets, $105,117.33. Architect, private plans. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Brick and steel, 1 story, 280x100 feet, gypsum tile roof, wood block and concrete floors, roof ventilators, rolled steel sash and ventilators and doors, bond, iron work. Contract awarded to Robbins Cont. Co., 1137 North Front street.

Garage, Ridge and Midvale avenues, Philadelphia. Architects, Curtis Grindrod Co., 10 South Eighteenth street. Owner, George H. Seddon, Thirty-fifth and Sunnyside avenue. Brick, cut stone and steel, 1 story, 101x84 feet, slag roof, cement floors, rolled steel sash, metal ceilings. Contract awarded to Clayton Lofland, Water and Race streets.

Residence, Seventieth and Paschall avenue Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Daniel McNichol, care of architect. Stone, 3 stories, 28x48 feet, and 1 story, 20x22 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, cement work. Contract awarded to George S. Roe, 6949 Saybrook avenue, Philadelphia.

Residence, Wayne avenue and Westview street, Germantown, $25,000. Architect, private plans. Owner, Dr. Leon Clemmer, Hahnemann Hospital, Philadelphia. Stone, 2½ stories, 20x43 feet and 13x17 feet, slate roof, hardwood floors, tile work (plumbing, heating and electric work reserved). Contract awarded to William Steele & Sons, 1600 Arch street.

Garage and Shop, 1325-29 Passyunk avenue, Philadelphia, $16,750. Architect, John Sindoni, 1905 South 16th street. Owners, Campanelli Brothers, 1323 Passyunk avenue. Brick, cut stone and steel, 3 stories, 52x84 feet, slag roof, cement floors, metal lath, demolition, rolled steel sash. Contract awarded to Cerasoli & Scurci, 1709 South Eleventh street.

Residence, Queen Lane, Germantown, Philadelphia. Architect, Mantle Fielding, 520 Walnut street. Owner, Edward W. Taylor, care of architect. Stone, 2½ stories, 57x30 feet, shingle roof, oak and pine floors, hot water heating, electric lighting. Contract awarded to William C. Wright, 22 Harvey street, Philadelphia.

Parsonage, Olney avenue, near Third street, Olney, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, St. James' Methodist Episcopal Church, on premises. Stone and steel, 2½ stories, 57x23 feet, slate roof, oak and pine floors, metal lath (heating, lighting and plumbing reserved). Contract awarded to William L. Bushnell, 322 West Tabor road.

Garage, Frankford avenue and Berks street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Eli Mervish, care of architect. Brick and steel, 1 story, 120x120 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, iron work. Contract awarded to J. Nieman, 6019 Market street, Philadelphia.

Store and Apartment (alts.), 533 West Cumberland street. Architect, private plans. Owner, Mrs. Elizabeth Murray, on premises. Plastering, carpentry, hot water heat, electric light, metal bulks, plate glass. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street.

Store and Apartments (4), Garrett Road, opposite Sixty-ninth Street Terminal, Philadelphia. Architect, F. V. Nickesl, 225 South Sydenham street. Owner, name withheld. Brick and cut stone, 2 stories, 45x71½ feet, slag roof, pine floors, hollow tile, hot water heat, electric light, iron and iron work. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

Residence and Store (alts.), 2078 Ridge avenue, $5,000. Architect, private plans. Owner, David Gross, on premises. General interior alterations, carpentry, mill work. Contract awarded to B. Bornstein, 1319 Washington avenue.

Residence, South side Borbick street, West of James street, $13,000. Architect, private plans. Owner, J. H. Craig, 8142 D street, Philadelphia. Brick, 3 stories, 37x35 feet, slag roof, oak and pine floors, hot water heat,

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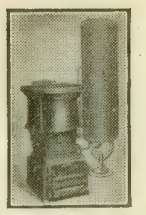
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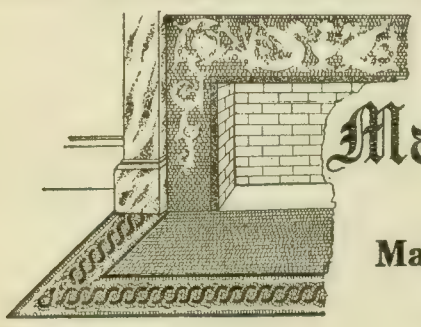
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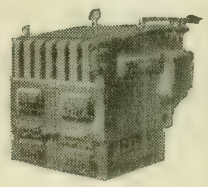
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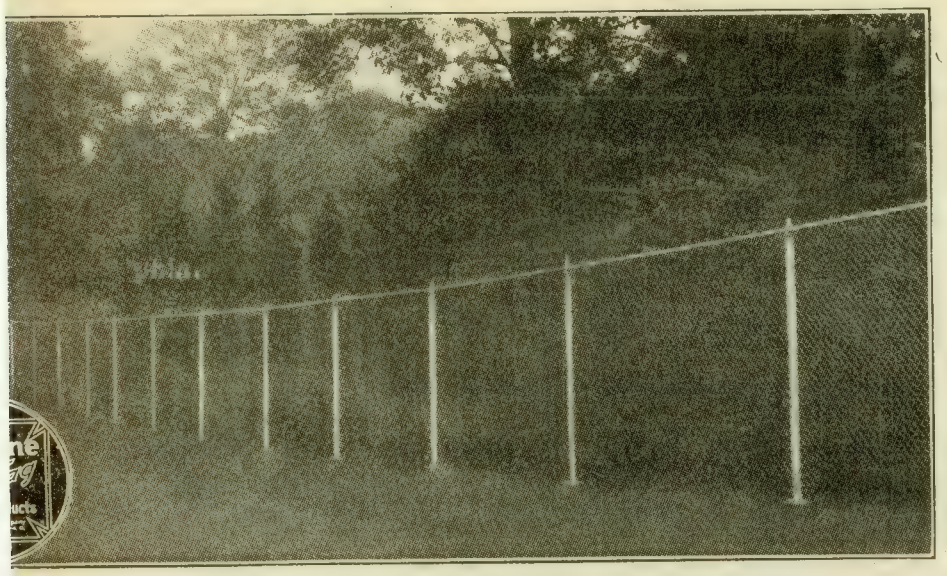
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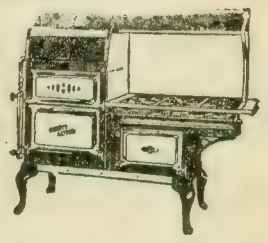


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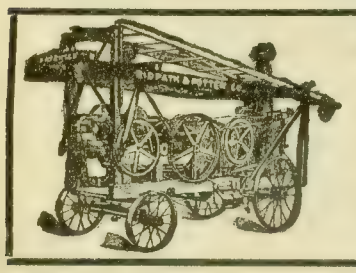
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electric light, tile work. Contract awarded to Garthy Brothers, 931 Hellerman street.

Garages, 5040 Brown street, Philadelphia, $4,500. Architect, private plans. Owner, W. McNickles, on premises. Brick, 1 story, 16x120 feet, slag roof, cement floors, electric light. Contract awarded to J. A. Donlon, 5122 Stiles street.

Garage, 3615 North Fifteenth street, Philadelphia, $4,000. Architect, private plans. Owner, H. A. Arnholdt, on premises. Brick, 1 story, 25x75 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to Northeast Realty Co., Southwest Corner Fifth and Allegheny avenue.

Residence and Store (add.), 534-36 West Pike street, $3,000. Architect, private plans. Owner, Julia Kaplan, 534 Pike street, Philadelphia. Brick, 1 story, 12x16 feet, slag roof, yellow pine floors, electric light. Contract awarded to F. Quate, 1323 Snyder avenue, Philadelphia.

Tenement, Southeast Corner Forty-ninth and Pine streets, Philadelphia, $175,000. Architect, Clarence Wunder, 1415 Locust street, Philadelphia. Owner, Maurice Rose, 1415 Locust street, Philadelphia. Stone and brick, 4 stories, 176x92 feet, slag roof, maple floors, steam heat, electric light. Contract awarded to Rose Const. Co., North American Building, Philadelphia.

Residence, Southwest Corner Rising Sun avenue and Levick street, $14,000. Architect, Christian H. Fries, 8327 D street, Philadelphia. Owner, A. H. Martin, 6414 Rising Sun avenue, Philadelphia. Brick, 2 stories, 26x70 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to Garthly Brothers, 931 Hellerman street, Philadelphia.

Residence, West side Rising Sun avenue, South of Levick street, $13,000. Architect, Christian H. Fries, 8327 D street, Philadelphia. Owner, A. H. Martin, 6414 Rising Sun avenue, Philadelphia. Brick, 2 stories, 19x70 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Garthly Brothers, 931 Hellerman street, Philadelphia.

Residence, North side Chelten avenue, West of Seventh street, $13,000. Architect, Eugene Stopper, 1507 Arch street, Philadelphia. Owner, William G. Ewald, on premises. Brick, 2 stories, 33½x36 feet and 10x36 feet, slag roof, oak and pine floors, hot water heat, electric light, tile and marble work. Contract awarded to McNeill-Valentine Co., 841 North Broad street.

Residences (2), Hellerman street, East of H street, $10,000. Architect, private plans. Owner, John H. Boyle, 814 Bulletin Building, Philadelphia. Brick, 3 stories, 16x43 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Jacob Hansen, Fox Chase, Philadelphia.

Residences (2), South side Gilham street, West of Oakley street, $5,000 each. Architect, private plans. Owner, William Avison, 6900 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x49 feet, 10x8 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to John Y. Adams, 6900 Rising Sun avenue.

Residence and Store (alts. and add.), 5913 North Broad street, $3,000. Architect, private plans. Owner, Dr. F. P. Turner, 592 North Broad street, Philadelphia. Brick, 2 stories, 17x14 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Charles P. Trois, 2154 East Chelten avenue, Philadelphia.

Residence and Store (add.), 547 North Sixty-third street, Philadelphia, $3,000. Architect, private plans. Owners, M. Mohr & Killey, 844 North Sixty-third street, Philadelphia. Brick, 2 stories, 17x6 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to Samuel A. Rodgers, 5302 Thompson street, Philadelphia.

Residence and Store (add.), 920 North Forty-second street, Philadelphia, $3,000. Architect, private plans. Owner, Mr. Eisbart, on premises. Brick, 2 stories, 13x16 feet 5 inches, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to Joseph Eakin, 4106 Westminster avenue, Philadelphia.

Residence and Store (add.), 1416-18 Point Breeze avenue, $2525. Architect, private plans. Owner, Abe Goldenberg, on premises. Brick, 1 story, 32x15 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to F. P. Dillon, 1223 South Twentieth street, Philadelphia.

Residence and Store (alts. and add.), Southwest Corner Franklin and Berks, $2,500. Architect, private plans. Owner, I. Shore, on premises. Brick, 3 stories, 18x8 feet, slag roof, yellow pine floors. Contract awarded to P. Savar, 718 Snyder avenue, Philadelphia.

Residence (add.), 6040 Torresdale avenue, $2,500. Architect, private plans. Owner, Frederick Eugene, on premises. Brick, 2 stories, 15½x13 feet, 15½x10 feet, slag roof, yellow pine floors. Contract awarded to MacDonald & Rogers, 6825 Van Dyke street.

Residence and Store, 223 Poplar street, Philadelphia, $8,000. Architect, private plans. Owner, Harry Solomon, 203 Poplar street, Philadelphia. Brick, 3 stories, 20x21 feet, 16x49 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Birkelbach & Co., 4908 Richmond street, Philadelphia.

Office, 1729 North Marvine street, Philadelphia, $4,750. Architect, private plans. Owners, George Kessler Cont. Co., Drexel Building, Philadelphia. Brick, 2 stories, 60x23 feet, slag roof, maple floors, steam heat, electric light. Contract awarded to George Kessler Cont. Co., Drexel Building.

Residence (alts.), 2011 Pine street, Philadelphia, $4,200. Architect, private plans. Owner, Dr. Frank A. Craig, 2011 Pine street, Philadelphia. General interior alterations. Contract awarded to Humphreys & Knott, 243 South Fifty-third street.

Garage (add.), 3455-57 North Philip street, Philadelphia, $2,500. Owner, Charles Stover, 3427 North Second street. Brick, 1 story, 21x50 feet, slag roof, cement floor. Contract awarded to Ezra Sheetz, 1031 West Tioga street.

Garages (3), 5528 Thompson street, Philadelphia, $2,025. Architect, private plans. Owner, I. Katz, on premises. Brick, 1 story, 16x24 feet, slag roof, cement floors, hot water heat, electric lighting. Contract awarded to A. S. Shafer, 2122 South Nineteenth street.

Store, Southeast Corner Forty-seventh and Woodland avenue, Philadelphia, $3,500. Architect, private plans. Owner, M. Hallinan, 123 South Fifty-first street, Philadelphia. Brick, 1 story, 25x25 feet, slag roof, pine floors, hot water heat. Contract awarded to J. P. Collins, 5632 Walnut street, Philadelphia.

Residence, South side Cliveden street, East of Magnolia, $9,000. Architect, private plans. Owner, Annie E. Turner, 147 East Pomona

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street, Philadelphia. Brick, 3 stories, 25x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to M. W. Schaeffer, 6361 McCallum street, Philadelphia.

Residence, South side Ellet street, South of Green street, $9,000. Architect, private plans. Owner, Oliver W. Moore, 6660 Germantown avenue, Philadelphia. Stone, 3 stories, 27x37 feet, slate roof, yellow pine and oak floors, hot water heat, electric light. Contract awarded to M. W. Schaeffer, 6361 McCallum street.

Residence, South side Cliveden street, East of Magnolia street, $9,000. Architect, private plans. Owner, Samuel Rainey, 145 East Pomona street, Philadelphia. Brick, 1 story, 25x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to M. W. Schaeffer, 6361 McCallum street.

Store and Garage, Northeast Corner Forty-second and Warren streets, $3,000. Architect, private plans. Owner, Edward C. Brown, 427 South Broad street, Philadelphia. Brick, 1 story, 49x23½ feet, slag roof, yellow pine and cement floors, electric light. Contract awarded to S. G. Washington, 2228 Oxford street.

Residences (2) (alts. and add.), 1157-59 South Thirteenth street, $2,000. Architect, private plans. Owner, Generoso Roso, 835 Catharine street, Philadelphia. Brick, 1 story, 12½x16 feet, slag roof, yellow pine floors. Contract awarded to Calogero Cancelose, 2021 South Thirteenth street.

Storage, Southwest Corner Delaware avenue and Laurel street, $12,000. Architect, private plans. Owners, Pennsylvania Sugar Co., on premises. Brick, 1 story, 90x74 feet, slag roof, concrete floors, electric lighting. Contract awarded to O'Meara Const. Co., 228 South Warnock street.

Residence, North side Medary avenue, East of Eighth street, $10,000. Architect, private plans. Owner, Frank Hildebrand, Kenilworth avenue, Philadelphia. Stone, 2 stories, 50 feet 10 inches x 34 feet 4 inches, slate roof, oak and pine floors, hot water heat, electric light. Contract awarded to Gilbert S. Smith, 1003 Sixty-ninth avenue.

Warehouse (add.), West side G street, North of Venango, $8,500. Architect, private plans. Owners, W. W. Baker & Co., G and Venango streets, Philadelphia. Brick, 1 story, 44x120 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to A. Earl Barnes Co., 2044 East Clementine street.

Tenement (alts. and add.), 4612 Baltimore avenue, $8,200. Architect, private plans. Owner, Jacob Epstein, 61 North Thirty-second street, Philadelphia. Brick, 2 stories, 17½x17½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Joseph Cohen, 23 Wayne avenue, Trenton, N. J.

Residences (2), East side Somerton street, South of City Line. Architect, private plans. Owner, D. Brewer Gehly, Somerton, Pa. Tile and frame, 2 stories, 28x32 feet, slate roof, oak and pine floors, slate roof, hot air heat, electric light. Contract awarded to William D. Bubeck, Somerton, Pa.

Warehouse, West side Bambrey, North of Morris street, $5,000. Architect, private plans. Owner, James Hamilton, Northeast Corner Twenty-fifth and Moore streets. Brick, 1 story, 48x100 feet, slag roof, cement floors, steam heat, electric light, steel sash. Contract awarded to John Ehman, 1908 Tasker street, Philadelphia.

Residences (2), East side Tabor Road, South of Cottman street. Architect, private plans. Owner, William Widman, 3848 North Eighth street, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to August Glaser, 1646 North Fourth street, Philadelphia.

Residence, 607 Poplar street, Philadelphia, $5,800. Architect, private plans. Owner, H. Jacobson, 618 Poplar street, Philadelphia. Brick, 2 and 3 stories, 18x27 feet, 13x22 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to M. Rosenhick, 709 Parrish street.

Store Building, 14 North Fourth street, Philadelphia, $4,600. Architect, private plans. Owners, Northern Trust Co., 600 Spring Garden street. General fire repairs. Contract awarded to General Cont. Co., 1215 Frankford avenue.

Residence and Store (add.), Northeast Corner Torresdale avenue and Higbee street, $3,000. Architect, private plans. Owner, W. Elwood Strunk, on premises. Brick, 2 stories, 6x17 feet, 25x17 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Frank W. Zebley, 6012 Hegerman street.

Store and Storage a(dd.), 1607 South street, $2,100. Architect, private plans. Owner, J. Fineman, 1605 South street, Philadelphia. Brick, 1 story, 14x15 feet, slag roof, oak and

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pine floors, electric lighting. Contract awarded to Louis Freidman, 1314 McKean street.

Garage, Southeast Corner Carlisle and Bristol streets, Philadelphia, $4,000. Architect, private plans. Owner, Caroline Weber, care of builder. Brick, 1 story, 18x93 feet, 18x20 feet, slag roof, concrete floors ,electric lighting. Contract awarded to **H. E. Sweger, 4435** North Uber street, Philadelphia.

Residence (alts.), Northeast Corner York and Mascher streets, $3,100. Architect, private plans. Owner, Morris Silverman, on premises. General interior alterations. Contract awarded to Birkelbach & Co., 4608 Richmond street, Philadelphia.

Warehouse and Bakery, 240 North Fifty-seventh street, Philadelphia, $4,500. Architect, private plans. Owner, M. Di Giacoma, on premises. Brick, 1 and 2 stories, 17x18 feet, also alterations to dwelling, 2 story add., 18x12 feet, slag roof, pine and cement floors, electric light. Contract awarded to A. Valenano, 404 North Sixty-fourth street, Philadelphia.

Garage, 1834-36 North Uber street, Philadelphia, $6,000. Architect, private plans. Owner, Frank Howard, on premises. Brick, 1 story, 36x77 feet 10 inches, slag roof, cement floors, steam heat, electric light. Contract awarded to Kline & Co., 2528 North Broad street.

Studio (alts.), 223 South Sydenham street, Philadelphia, $3,400. Architect, private plans. Owner, Dr. John M. Fisher, on premises. General interior alterations. Contract awarded to T. S. Fetter, 1829 Filbert street.

Apartments, West side Fifty-eighth street, North of Spruce, $80,000. Architect, private plans. Owner, William Conway, 5800 Walnut street, Philadelphia. Brick, 3 stories, 37x14 feet, 49x18½ feet and 33x30 feet, slag roof, oak and pine floors, steam heat, electric light, tile work. Contract awarded to H. H. Conway, 5800 Walnut street, Philadelphia.

Office (add.), 1502 Locust street, Philadelphia, $10,000. Architect, private plans. Owner, Albert Reed, 1506 Locust street, Philadelphia. Brick, 3 stories, 22x44 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to B. F. Virdin, 2917 Fletcher street.

Building, (alts. and add.), 1521 Locust street, $10,000. Architect, Edwin L. Rothschild, 1420 Chestnut street, Phialedlphia. Owner, care of architect. Brick, 4 story addition, 16x28 feet, general alterations. Contract awarded to T. Strochman, 5108 Haverford Ave.

Residence, North side Wyoming Avenue, west of Adams Ave., $8,000. Architect, private plans. Owner, Mrs. Elizabeth Butler, 4682 Hawthorne St. Brick, 2 stories, 24x33½ feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Geo. R. Osborne & Sons, 5014 Paul street.

Studio, East side Cresheim Road, north of Emlen St., $17,000. Architect, private plans. Owner, Hughes Elliott, McCallum street, Germantown, Philadelphia. Stone, 2 and 1 stories, 24x52 feet, 34x20 feet, slate roof, oak and yellow pine floors, hot air heat, electric light, tile work. Contract awarded to Samuel Harting & Son, 20 E. Johnson street.

Building, (add.), 38 N. 52nd street, $8,000. Architect, private plans. Owner, Edward Cullen, 5125 Pine street, Philadelphia. Brick, 2 stories, 13x18 feet, 13x34 feet, and 10x8 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Chas. E. Williams, 20th and Sansom street.

Residence, West side Reach street, south of Cheltenham Lane. Architect, Private plans. $6,000. Owner, Harry T. Endy, 2722 Reese street, Philadelphia. Frame, 2 stories 26x38 ft., shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to Geo. W. Roberts, 6020 Walker street.

Baker Shop and Residence, 841-43-45 North Eleventh street, $5,000. Architect, private plans. Owner, Leon Radoff, on premises. Brick, 2nd story addition, 34x24 feet, slag roof, cement floors, electric lighting. Contract awarded to Jacob Copeland & Son, 1218 N. 7th street.

Apartment, (alts.), 4100 North Broad st., $4,500. Architect, private plans. Owner, Wm. H. Manning, 1327 Norris street, Philadelphia. Carpentry, millwork, painting, glazing, alterations. Contract awarded to Frank I. Wintz, 1618 N. 27th street.

Garage, 4853 Parkside Ave., Philadelphia. $3,000. Architect, private plans. Owner, S. Janer, on premises. Brick, 1 story, 30x24 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Harry Platt, 1701 Chestnut street.

Building, (Add.), 2437 S. Seventh street, $2,200. Architect, private plans. Owner, J. Goldberg, on premises. Brick, 1 story addition, 11x13 feet, slag roof, pine floors. Contract awarded to C. Jacobs, 1313 No. 12th street, Philadelphia.

PENNSYLVANIA
Construction News

Dairy Building (add.), Ninth and Hyatt streets, Chester, Pa. Engineer, R. J. Lawrence, Roxboro, Philadelphia. Owners, Chester Dairy Supply Co., on premises. Brick, second story add., 150x45 feet, raising roof, maple floors, rolled steel sash and doors. Owners will take new bids.

Residence, Brookline, Delaware County, Pa. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owner, Harry Bond, care of architect. Stone, 1½ stories, 26x49 feet, slate roof, hardwood and composition floors, hot water heat, electric light, tile work. Architect taking bids due April 17th.

Church, Sunday School, Parsonage and Laundry, Market street and Richland avenue, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, Grace Methodist Episcopal Congregation, Rev. D. Y. Brouse, York, Pa. Stone, structural steel, limestone, leaded glass, slate and tile roof, tile and terrazzo floors, heating, plumbing, skylights. Architect will take bids in a few days.

Store and Apartments, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, A. S. Hershey, York, Pa. Brick, 3 stories, 32x90 feet, tin roof, hardwood floors, vapor heat, electric light, metal lath, dumb waiters, sash and skylights, roof ventilators, metal window guards. Architect taking bids due April 15th.

High School, Bryn Mawr, Pa., $300,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, School Board of Lower Merion Township, William J. Byrne, secretary, Ardmore, Pa. Brick, steel and concrete. Plans in progress. Too early for details.

Junior High School, Ardmore, Pa., $400,000. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, School Board of Lower Merion Township, William J. Byrne, secretary, Ardmore, Pa. Brick, stone, steel and concrete. Plans in progress.

Cottages (3), Lansdowne, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, name withheld. Frame and stucco, 2½ stories, various sizes, shingle roof, electric lighting. Plans in progress.

Twin Residence, Mt. Carmel, Pa. Architect, William H. Lee, 32 South Seventeenth street. Owners, Thomas Owens and William

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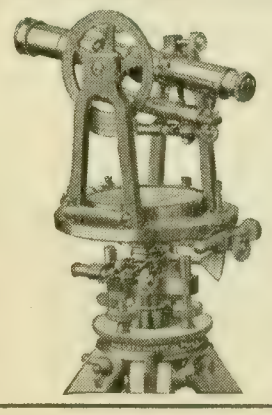
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Bianckini, Mt. Carmel, Pa. Hollow tile and brick, 2 stories, 20x73 feet, electric light, tile work, hardwood floors. Architect will be ready for bids in a few days.

Bank Building, Media, Pa. Architect, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Media Title & Trust Co., G. Robinson, president, Media, Pa. Brick and stone, 1 story, 44x86 feet. Plans in progress.

School (alts.), West Chester, Pa. Owners, West Chester Normal School, care of J. Howard Lumis, 320 West Walnut street, West Chester, Pa. Rewiring main building. Owners taking bids due April 20th at noon.

Warehouse, Chester, Pa. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, William E. Headley, Chester, Pa. Reinforced concrete, 5 stories and basement, 101x126¾ feet. Architects taking bids due April 15th.

Residence (add.), Berwyn, Pa. Architect, William Wayne, Jr., 1501 Spruce street, Philadelphia. Owner, Henry L. Collins, Berwyn, Pa. Stone, 2½ stories, 15x30 feet, slate roof, oak and pine floors. Architect taking bids due April 15th.

High School, Scranton, Pa. Architect, G. W. Edson, Connell Building, Scranton, Pa. Owners, Scranton School District, care of Mr. Hughes, Scranton, Pa. Brick and steel, 3 stories, 179x263 feet, slag roof, oak and concrete floors, hollow tile, metal lath, roof ventilators, tile and marble and iron work (heating, lighting and plumbing separate bids). Owners taking bids due April 24th.

Church, Fourth and Windsor streets, Reading, Pa., $80,000. Architects, Ritcher & Eiler, Reading, Pa. Owners, Lutheran Church of the Holy Spirit, Rev. C. G. Beck, 421 Windsor street, Reading, Pa. Brick, 1 story, basement and gallery, 50x100 feet, stone trim, slate roof, maple floors, vapor heat, electric light, metal lath, steel sash. Owners taking bids due April 15th.

Church, Sunday School and Parsonage, East Stroudsburg, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, East Stroudsburg Methodist Episcopal Church, Rev. J. Grauley, Reading. Brick, stone, steel, 1 story and basement, 82x100 feet, slate roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath, skylights, metal window guards. Owners ready for bids.

New Sunday School, Church (alts.), Quarryville, Lancaster County, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, St. Paul's Reformed Church, Rev. H. Obold, premises. Stone, 1 story, basement and gallery, 40x60 feet, slate and composition roof, maple floors, vapor heat, electric light, metal lath, waterproofing and dampproofing. Owner taking bids.

Town Hall, Moving Picture Theatre and Fire Station, Richland, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Richland Fire Co., J. A. Fisher, secretary, on premises. Brick, 2 stories, 50x125 feet, asbestos slate roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath. Architect will be ready for bids next week.

Bank Building, Pottsville, Pa. Architects, Mowbray & Uffinger, 56 Liberty street, New York. Owners, Schuylkill Trust Co., N. S. Farquhar, manager, Pottsville, Pa. Stone or marble, 1 story, 50x120 feet. Plans in progress.

Factory (add.), Meyerstown, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Liebovitz & Co., care of architect. Brick. Work contemplated.

Manufacturing Plant, Bridgeport, Montgomery County, Pa., $50,000. Architect, private plans. Owners, Gehret Brothers, Bridgeport, Montgomery County, Pa. Brick, steel, 1 story, 120x200x30 feet, slag roof, rolled steel sash. Owner ready for sub-bids.

Residence, Morrisville, Pa. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, care of architect. Brick, hollow tile, 2 stories, 32x90 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Twin House, Lansdale, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, Adella Jenkins, Lansdale, Pa. Hollow tile or cement block, 34x38 feet, slate roof, yellow pine floors, hot water heat, electric light, skylights. Owner ready for bids.

School (high), Freeland, Pa., $130,000. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, School District of Freeland Borough, O. W. Fairchild, secretary, 1024 Washington street, Freeland, Pa. Architect selected. Details undecided.

Public Comfort Station, Market Square, Harrisburg. Architect, C. H. Lloyd, Telegraph Building, Harrisburg. Owners, City of Harrisburg, care of Mr. Lynch, Harrisburg. Architect selected.

Apartment House and (19) Garages, Haverford, Pa. Architect, E. F. Durang, 1220 Locust street, Philadelphia. Owner, I. F. Daley, care of architect. Brick and steel, 4 stories, 56x41 feet, garage, 1 story, irregular size, slate roof, etc. Revised plans in progress.

Silk Throwing Plant, Bethlehem, Pa. Architects, William Steele & Sons Co., engineers, 1600 Arch street, Philadelphia. Owners, R. K. Laros Silk Co., R. K. Laros, president, Bethlehem, Pa. Brick and steel, 3 stories, 60x240 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash and skylights, fire doors, elevators, waterproofing. F. B. Glasmire, Bethlehem Trust Building, Bethlehem, Pa., taking sub-bids.

Residence, Sedgwick Farms, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Miss M. E. Warner, care of architect. Stone, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids. W. John Stevens, Inc., Wyncote, Pa., will figure.

Bridge, Over Juniata River, above Duncannon, Pa., $250,000. Engineer, County Engineer Clinton M. Hershey, Harrisburg, National Bank Building, Harrisburg, Pa. Owners, Dauphin Co. Bridge Com., Harrisburg, Pa. Reinforced concrete, 1,031 feet long. Plans in progress.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, C. T. Ross, 1117 Market street, Harrisburg, Pa. Stucco, tile, 2½ stories, 32x36 feet, tile roof, hardwood and tile floors, steam heat, electric light, tile and marble work. Architect taking bids due April 15th.

Residence, Front and Lewis streets, Harrisburg, Pa. Architect, B. E. Starr, Spooner Building, Harrisburg, Pa. Owner, R. W. Stone, 3131 North 2nd street, Harrisburg, Pa. Brick, stucco, 2½ stories, 29x39 feet, slate roof, hardwood floors, hot water heat, electric light tile work. Architect taking bids due April 18th.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Dr. Chas. Rebuch, 412 North Third street, Harrisburg, Pa. Brick, 2½ stories, 35x60 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Architect taking bids due April 28th.

Bank, Enola, Pa. Architects, Lawrie and Lappley, Second and Locust streets, Harrisburg. Owners, Enola State Bank, Dr. Holmes, Enola, Pa. Brick, 2 stories, 35x70 feet, slag roof, tile floors, vapor heat, electric light, hollow tile, metal lath, roof ventilators, metal window guards. Architect taking bids due April 21st.

Residences (5), Ruby street, Lancaster, Pa. Architect, M. R. Evans, 10½ E. Orange st., Lancaster, Pa. Owner, C. Haller, 402 S. Queen street, Lancaster, Pa. Brick, 2½ stories, 18x40 feet, slag roof, pine floors, hot air heat, electric light. Owner will sub-let.

Residence, Marietta Street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, C. H. Nolt, 824 Main st., Lancaster, Pa. Brick, 2½ stories, 42x36 feet, and 20x21 feet, hardwood floors, hot water heat, tile work. Plans in progress.

Garages (3), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, A. F. Pontz, 21 S. Queen st., Lancaster, Pa. Brick, 1 story, 20x35 feet, slag roof, concrete floors, electric light. Architect ready for bids.

Residences, (10), Lancaster, Pa. Architect, M. R. Evans, 10½ E. Orange street, Lancaster, Pa. Owner, Bowman Kendig, North Queen street, Lancaster, Pa. Brick, stucco, 2½ stories, 24x30 feet, shingle roof, hardwood floors, electric light, hot water heat, tile work. Owner will take bids.

Residence, Buchanan Ave., Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, L. R. Knight, Imperial Building, Lancaster, Pa. Brick, stucco, cinder concrete block, 2½ stories, 33x45 feet, stone foundations, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due as soon as possible.

Fire House, (add.), Steelton, Pa. Architect, T. H. Hamilton, 11 N. 2nd street, Harrisburg, Pa. Owner, Borough of Steelton, care of Architect. Brick, steel, 1 story, 56x30 feet, slag roof, hardwood floors, electric light. Architect taking bids due April 18th.

Bank, Valley View, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, Valley View National Bank, care of architect. Terra cotta and tile, 1 story, 32x65 feet, slate roof, marble floors, steam heat, electric light, tile and marble work, bank fixtures, ornamental iron work. Plans in progress.

School, W. Connellsburg, Pa. Architects, Lawrie & Lappley, 2nd and Locust streets, Harrisburg. Owners, School Board of Connellsburg, Chas. G. Stevens, Secretary, Connellsburg, Pa. Too early for details.

Apartment and Garage, River Road, Harrisburg, Pa. Architect, T. H. Hamilton, 11 N. 2nd street, Harrisburg, Pa. Owner, Geo. W. Meyers, care of architect. Stone, 2 stories, 30x36 feet, slate roof, hardwood and concrete floors, steam heat, electric light. Plans in progress.

Office and Apartment, Second and Verbeck streets, Harrisburg, Pa. Architects, Lawrie & Lappley, 2nd and Locust streets, Harrisburg, Pa. Owner, Dr. G. W. Bauder, 1225 N. 2nd street, Philadelphia. Brick, 3 stories, 28x70 feet, composition roof, hardwood floors, vacuum heat, electric light. Plans in progress.

Hotel, (add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, D. A. Skylass, Lancaster, Pa. Brick, 4 stories, 30x65 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work. Plans in progress.

Residence, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Penrose Ruhl, Lititz, Pa. Brick, 2½ stories, 30x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

School, W. Lambpeter, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, W. Lambpeter Township School Board, care of architect. Brick. Too early for details.

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PENNSYLVANIA
Contracts Awarded

Residence, Sutton Road, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Harold Spear, Ardmore, Pa. Hollow tile, frame and stucco, 2 stotries, 44x25 feet, shingle roof, oak and pine floors, hot water heat, electric lighting, tile work. Contract awarded to Stewart Hutchinson, Ardmore, Pa.

Printing Establishment, Thirteenth and Walnut streets, Harrisburg. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Central Printing and Publishing Co., Harrisburg, Pa. Brick, steel, 3 stories and basement 56x90 feet, 2 wings, 24x20 feet, slag roof. Contract awarded to S. W. Shoemaker & Son, 421 Walnut street, Harrisburg, Pa.

Store and Residence, West Market street, West York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, Dr. W. T. Evans, West York, Pa. Brick, 2 stories, 21x60 feet, flat roof, maple floors, electric light, plate glass. Contract awarded to Hess Brothers, York, Pa.

Store (alts. and add.), York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, H. Westley & Co., York, Pa. Brick, 3 stories, 20x100 feet, composition roof, maple floors, electric light, metal ceilings, rolled steel sash, waterproofing, dampproofing. Contract awarded to Hess Brothers, York, Pa.

Municipal Building, Upper Darby, Pa., $30,-694. Architect, Willis A. Hall, Sixty-ninth Street Post Office Building, Upper Darby, Pa. Owners, Upper Darby Townsend. Brick, cut stone and steel, 2 stories, 75x38 feet, slag roof, cement, pine and composition floors, metal lath, safety treads, roof ventilators, terra cotta, marble work, kalamein doors, floor hardener, iron work. Contract awarded to Friel McLeister Co., Inc., 2146 East Norris street, Philadelphia.

Residences (4), Roslyn, Pa. Architect, Robert C. Winter, 25 South Sixteenth street, Philadelphia. Owners, Hillthorp Realty Co., Roslyn, Pa. Frame, shingle and stucco, 2½ storoies, 25x30 feet, shingle roof, pine floors, hot water heat, tile work. Contract awarded to Hillthorp Cont. Co., Roslyn, Pa.

Residence, Roslyn, Pa. Architect, Robert C. Winter, 11 South Sixteenth street, Philadelphia. Owners, Mrs. Violet Schaffer, Roslyn, Pa. Frame, shingle and stucco, 2½ stories, 25x30 feet, shingle roof, pine floors, hot water heat, electric light, tile work. Contract awarded to Hillthorp Cont. Co., Roslyn, Pa.

Residence (alts. and add.), Tamaqua, Pa. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owner, Harry Seligman, Tamaqua, Pa. Frame, 2 story add., 15x20 feet, tile and tin roof, hardwood floors, tile work. Contract awarded to Percy M. Swank, Tamaqua, Pa.

Residences and Stores (2), South Springfield, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, Joseph A. Gibens, Bellevue avenue, Secane, Pa. Brick, 2 stories, 36x45 feet, slag roof, pine floors, hot water heat, electric lighting. Contract awarded to Joseph S. Creamer, 1739 North Twenty-sixth street.

Residence, Latham Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, Louis Burk, Third and Girard avenue. Stone, 2½ stories, 87x54 feet, slate and tile roof, composition, oak and pine floors, hot water heat, electric light, tile work, copper skylights, iron work. Contract awarded to John N. Gill Const. Co., Otis Building, Phila.

Residence, Merion, Pa. Architect, Carl P. Berger, Penn Square Building, Philadelphia. Owner, Dr. George Betz, 1533 Green street, Philadelphia. Hollow tile and stucco, 2½ stories, 28x50 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Residence, Narberth, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street. Owner, H. S. Roberts, Narberth, Pa. Frame, 2½ stories, 32x38 feet, asphalt shingle roof, pine floors, hot water heat, electric light, tile and marble work. Contract awarded to James McMackin, Narberth, Pa.

Residence, Merion, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Clarence E. Hall, care of architects. Hollow tile and stucco, 2½ stories, 87x16 feet, wing 40x11 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to H. Conway, Lansdowne, Pa.

Garage and Stock Lumber Shed, Walnut and Thorn streets, Reading. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Central Lumber Co., W. Kessler, Reading, Pa. Concrete, cement, plaster, 2 stories, 100x40 feet, Johns Manville roof, concrete and wood floors, steam heat, electric light. Contract awarded to A. A. Oxenrider, Eighteenth Ward, Reading, Pa.

Church, Johnstown, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Church of the First Brethren, Johnstown, Pa. Brick, stone, 1 story and basement, 60x135 feet, concrete foundations, slate roof, maple floors, steam heat, electric light. Contract awarded to Gardner Const. Co., Johnstown, Pa.

Jefferson School Annex, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, School Board of Allentown, care of T. P. Wenner, secretary, Allentown, Pa. Brick, steel, 2 stories and basement, 130x200 feet, concrete foundations, slag roof, hardwood floors, tile, marble and terrazzo work, metal lath, rolled steel skylights, firedoors. Contract awarded to Ochs Const. Co., 440 Wire street, Allentown.

Residence, Cynwyd, Pa. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, Horace P. Liversidge, Bala, Pa. Stone, 2½ stories, 52x27 feet, wing 18x27 feet, tile or slate roof, oak and pine floors, stone foundations, plumbing, heating, electric work, tile and marble, bond, iron work. Contract awarded to Chas Gilpin, Harrison Building, Philadelphia.

Garage, Rosemont, Pa. Architect, Stewardson & Page, 315 South 15th street. Owner, R. K. Cassatt, Rosemont, Pa. Stone, 2 stories, 70x24 feet, wing, 23x70 feet, slate roof, cement and pine floors, hot water heat, electric light, iron work. Contract awarded to Roydhouse-Arey Co. 112 North Broad street, Philadelphia.

NEW JERSEY
Construction News

Residence and Garage, Mansion avenue, Haddonfield, N. J. Architect, Ellery K. Taylor, 315 South Fifteenth street, Philadelphia. Owner, Mrs. Edward W. Marshall, Haddonfield, N. J. Frame, 2½ stories, 46x36 feet and 15x30 feet, shingle roof, pine and cement floors, hot air heat, electric light, tile work. Architect taking bids due April 21st.

Garage, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, care of architect. Steel, brick, 1 story, 50x100 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash and skylights. Plans in progress.

Bungalow, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, A. C. Hartquist, Maple avenue, Trenton, N. J. Brick, stucco, 2½ stories, 28x48 feet, tile and slate roof, hardwood floors, hot water heat, electric light. Architect ready for bids.

Lodge Building, Trenton, N. J., $300,000. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Knights of Columbus, G. W. Goff, 221 North Warren street, Trenton, N. J. Brick, 3 stories, 75x80 feet, 80x120 feet, slag roof, hardwood floors, steam heat, eltctric light, tile and marble work, hollow tile, elevators, safety treads, roof ventilators, skylights, fire doors, waterproofing, fireproofing. Architect will be ready for bids April 22nd.

State Hospital (add.), Trenton, N. J., $225,-000. Architects, Department of Institutions and Agencies, Trenton, N. J. Owners, State of New Jersey, care of Warden Natchley, on premises. Steel, fireproof, 1 and 2 stories, irregular size, slate roof, hardwood and composition floors, electric light. Department of Institutions and Agencies taking bids due April 19th.

Klockner School (add.), Hamilton Township, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owners, Hamilton Township School Board, William Robinson, Greenwood street, Trenton, N. J. Brick, 2 stories, slate roof, hardwood floors, hollow tile, metal lath (plumbing, heating, electric work reserved). Architect taking bids due April 19th.

Cameron Hall (alts.) to Stores, Apartment and Lodge, South Broad street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, S. Hilton & Bash, Forst Richey Building, Trenton. Brick, 1 story, 20x40 feet, pine floors, electric light, plumbing, copper work, plate glass, general interior work. Architects ready for bids.

Apartment House (alts. and add.), Princeton street, Trenton. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Samuel Hilton, Forst Richey Building, Trenton, N. J. Brick, 3 stories, 30x40 feet, slate roof, hardwood floors, steam heat, electric light. Architect ready for bids.

Residence, Morrisville Heights, Trenton, N. J. Architect, Walter Hankin, 39 West State street, Trenton, N. J. Owner, William R. Dollon, care of architect. Frame, 2½ stories, 36x24 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids.

Stores (4), Federal street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Bleakley Brothers, care of architects. Cinder block and plaster, 1 story, 50x85 feet, slag roof, pine floors, pipeless heating, electric light, plate glass, copper work. Architects taking bids due as soon as possible.

Store (alts. and add.), 26 Federal street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Lonsdale Co., care of architects. Brick, 2 stories,

46x100 feet, slag roof, pine floors, vapor heat, electric light. Owner taking bids due as soon as possible.

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Edward B. Humphrey, care of architects. Tile, plaster, 2½ stories, 60x35 feet, Spanish tile roof, hardwood floors, electric light, tile and marble work. Architects taking bids due April 15th.

Sales Room and Service Station, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Neel-Cadillac Co., 525 Market street, Camden, N. J. Steel, concrete, 2 stories, 80x175 feet, slag roof, concrete floors, vapor heat, electric light, tile, marble and terrazzo work, rolled steel sash, iron stairs, ornamental iron work. Plans in progress.

Elks' Home, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Camden Order of Elks, Lodge No. 293, care of architects. Brick, steel, fireproof, 6 stories, 40x165 feet, 35x60 feet, slag roof, hardwood floors, vapor heat, electric light, tile, marble and terrazzo work, metal lath, steel sash, fire doors, roof ventilators, metal lath, metal weather strips, waterproofing and dampproofing, terra cotta, ornamental iron work, safety treads, dumb waiters, elevators. Plans in progress.

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Nelson O. Denney, care of architects. Cinder block, 2½ stories, 37x29 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Architect taking bids due April 14th.

Factory, Taylor street, Trenton, N. J. Engineers, Karno Smith Co., Broad Street Bank Building, Trenton. Owners, Crescent Insulated Wire Co., Olden and Taylor streets, Trenton, N. J. Brick, steel, 1 story, 60x125 feet, Telford slag roof. Engineers will build.

Factory, Pennington avenue, Trenton, N. J., $25,000. Architect, private plans. Owners, C. V. Hall & Co., Inc., Pennington avenue, Trenton. Fireproof, concrete, brick, 2½ stories, 48x190 feet, slag roof, concrete floors, electric light. Owner will build.

Armory, Passaic, N. J. Architect, Department of Institutions and Agencies, Capitol, Trenton. Owners, Quartermaster General's Department, Capitol Building, Trenton, N. J. Lowest bids submitted by John J. O'Leary Co., Passaic, N. J., $79,900; the Carleton Company, Hoboken, N. J., $84,910. Plumbing, Jaehnig & Peoples, Newark, N. J., $4,444. Heating, William G. Royers Co., 510 Stuyvesant street, Trenton, $6,028.12. Electric work, Strang Electric Co., 214 South Seventh street, Philadelphia, $2,766.

Residence and Garage, Margate City, N. J. Architect, Howard A. Stout, Guarantee Trust Building, Atlantic City. Owner, L. L. Jones, 1019 Atlantic avenue, Atlantic City, N. J. Brick and stucco, 2½ stories, 88x40 feet, shingle roof, hardwood and cement floors, hot water heat, electric lighting, tile work. Architect taking bids due April 13th.

Church and Rectory, Trenton, N. J. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, Bethel Lutheran Church, Trenton, N. J. Brick, stone trim, 1 story and basement, 60x100 feet, slate roof, hardwood and pine floors, metal lath, tile work, steam heat, electric light, parsonage, 2 stories, 26x45 feet. Architect taking bids due as soon as possible.

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owner, Edward B. Humphrey, care of architect. Hollow tile and plaster, 2½ stories, 60x35 feet, Spanish tile roof, hardwood floors, electric light, tile and marble work. Architects taking bids due April 15th.

War Memorial, Pacific, between States and Maryland avenues, Atlantic City. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Commissioners, City Hall, Atlantic City. Brick, cut stone and steel, 2 stories, 100x55 feet, Johns Manville roof, concrete and maple floors, hollow tile, metal lath, waterproofing, iron work and stairs, kalamein doors, rolled steel sash, tile, marble and terrazzo. Lowest bidders: P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia, $110,500; F. V. Warren, 132 South Seventeenth street, Philadelphia, $125,504. Electric, Electric Equipment Co., Commonwealth Building, Philadelphia, $2,600. Heating, Currie Co., Atlantic City, N. J., $8,183. Plumbing, Edward W. Yeutter, 29 South New York avenue, Atlantic City, N. J., $4,152.

House of Detention, Camden, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Board of Freeholders, Court House, Camden, N. J. Lowest bidders: Albert Moorshead, 67 Laurel street, Philadelphia, $7,000; James W. Draper, 463 Haddon avenue, Camden, N. J., $7,175. Electric, Strang Electric Co., 214 South Seventh street, Philadelphia, $719. Plumbing, Lionel C. Simpson, Camden, N. J., $2,287.49. Heating, Cramer Heating Co., Camden, N. J., $1,400.

Schools, Runnemede, N. J., and Lawnside, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Township of Centre, Camden County, Harry Maloney, Clerk, Mt. Ephraim, N. J. Lowest bidders: Runnemede School—Penn Const. & Eng. Co., 3840 Spring Garden street, Philadelphia, $20,700; A. Voegtlin, Camden, N. J., $22,923.31. Lawnside School (alts. and add.)—Penn Const. & Eng. Co., Philadelphia, $8,467; A. Voegtlin, Camden, N. J., $8,761.

Municipal Poultry Market, Mediterranean Kentucky, and Drexel Aves., Atalntic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, Board of Commissioners. Brick and steel, 1 story, 212x103 feet, slate and slag roof, concrete floors, metal lath, floor hardener, iron work, (lighting and plumbing, separate bids). Owner taking bids due April 20th.

Kitchen and Congregate Dining Hall, Trenton, N. J. Architect, Dept. of Inst. & Agcys., Div. of Archt., Trenton, N. J. Owner, N. J. State Hospital for the Insane, Trenton, N. J. Brick and limestone, 2 stories, 186x167 feet, slate roof, pine floors, tile and marble rolled steel sash and skylighting, fire and hollow metal doors, metal ceilings, terra cotta, iron work and stairs, (heating, lighting and plumbing, separate bids.) Owners taking bids due April 19th.

New Jersey Contracts Awarded

Residence, West Collingswood, N. J., $8,700. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owner, Frank Sheppard, care of architect. Frame, 2 stories, 20x44 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light. Contract awarded to F. Fries, Haddon Heights, N. J.

Apartment and Stores, West Collingswood, N. J., $11,800. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owner, Frederick H. Boehm, care of architect. Hollow tile, frame, 2 stories, 40x60 feet, asphalt shingle roof, pine floors (heating and plumbing reserved). Contract awarded to Fred Lange, Audubon, N. J.

School Buildings, Scudder's Farm, near Trenton Junction, N. J. Architects, Guilbert & Betelle, Newark, N. J., and A. H. Moses, Camden, N. J. Owners, School Commissioners of New Jersey, State House, Trenton, N. J. Contract awarded to Wills Bill Co., 1706 Sansom street, Philadelphia, $279,430. Heating, Mechanical Equip. Co., 214 South Twelfth street, Philadelphia. Plumbing, Trenton Plumbing & Heating Co., Trenton, N. J. Sewage Disposal, Simpson Brown Co., 90 West street, New York City, $16,180.

Store and Apartment, Illinois and Pacific avenues, Atlantic City. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, Y. Dein, 1219 Pacific avenue, Atlantic City, N. J. Brick, steel and cut stone, 3 stories, 94x25 feet, slag roof, oak and pine floors, metal lath, iron work, bond, hollow metal sash, tile, marble and terrazzo, steam heat. Contract awarded to U. S. Const. Co., 2201 Arctic avenue, Atlantic City, N. J.

Garage, Haddonfield, N. J. Architect, Charles R. Peddle, 136 South Fourth street. Owner, Edward Morse Archer, Haddonfield, N. J. Frame and stucco, 1 story, 20x22 feet, shingle roof, cement floor, hot water heat, electric lighting. Contract awarded to S. B. Taylor, Haddonfield, N. J.

Residence, Woodside avenue, Trenton, N. J., $6,000. Architect, private plans. Owner, John Dovety, care of builders. Brick, 2½ stories, 26x30 feet, slate roof, pine floors, electric light. Contract awarded to Solan & Doller, 452 Genesee street, Trenton.

Bachelor Apartments (add.), 2005 Pacific avenue, Atlantic City, $9,000. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, Samuel F. Gorson, on premises. Brick and frame, 36x30 feet, slag roof, pine and composition floors, plumbing, electric work, tile work, general alterations. Contract awarded to A. O. Lieberman, Atlantic City, N. J.

Miscellaneous Construction News

Road Work Materials, Wilmington, Del. Engineer, Charles E. Grubb, County Building, Wilmington, Del. Owners, City of Wilmington, care of County Engineer. Crushed stone, gravel, slag, road tar, oils and asphalt. Owners taking bids due April 18th at noon. Deposit, $5.00.

Garage and Court Yard, Kennebunkport, Me. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, Atwater Kent, 4937 Stenton avenue, Philadelphia. Frame, 2 stories, 24x50 feet, shingle roof. Plans in progress.

Chapel, Granville, Ohio. Architect, Arnold W. Bruner, 101 Park avenue, New York City. Owners, Denison University, Granville, O. Brick, stone, steel and cut stone, 1 story, basement and balcony, 159x76 feet, slate roof, cork, pine and cement floors, metal lath and ceilings, waterproofing, iron stairs and work, hollow steel doors, tile, marble and terrazzo. Architect taking bids due as soon as possible.

Miscellaneous Contracts Awarded

Law Building, Morgantown, W. Va., $156,000. Architect, Charles W. Bates, Wheeling, W. Va. Owners, State Board of Control, Morgantown, W. Va. Brick, cut stone and steel, 2 stories and basement, 144x56 feet, red tile roof, linoleum, cement and oak floors, metal lath and window guards, tile and marble work, vault doors, floor hardener, iron, tile and marble work (steam heat, electric work and plumbing separate bids). Contract awarded to C. D. Keyster, Bellaire, O.

Bakery and Stable, East One Hundred and Forty-fourth street, between Girard and Wal-

ton avenues, Brooklyn, N. Y. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, General Baking Co., 343 Madison avenue, New York City. Brick, steel, cut stone and terra cotta, 2 stories, 163x200 feet, and 62x59 feet, slag roof, maple, cement and asphalt, mastic and wood block floors, metal lath, elevator doors, safety treads, roof ventilators, metal weather strips, cork insulation, waterproofing and dampproofing, iron work and stairs, floor hardener, bond, fire and kalamein door (plumbing, electric work and elevators reserved). Contract awarded to Frank J. O'Hare Const. Co., 300 Madison avenue, New York City.

Church, Rising Sun, Md. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Methodist Church, Rising Sun, Md. Brick, 1 story. Contract awarded to J. Lewis Ryan, Rising Sun, Md.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 5, 1922. Sealed Proposals will be opened in this office at 3 P. M., April 27, 1922, for the construction of kitchen to Junior Medical Officers' Quarters, including miscellaneous repairs, etc., to various buildings at the United States Quarantine Station, Baltimore, Md., in accordance with the drawing and specification, copies of which may be had at this office or at the office of the Custodian at the Quarantine Station, Baltimore, Md., in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.

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Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Mineraloid Flooring Co. ....524 Drexel Bldg., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR HARDENER.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HARDWOOD FLOORS.
Geiger, A. F..S. E. Cor. Felton and Media Sts., Phila.

HAULING CONTRACTORS.
Kane & Co. .....1226 N. 9th St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

INSULATION.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE.
Insurance Co. of North America,
3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....319 Vine St., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LATHER (Wood and Metal)
Whiteman, C. S. .....717 Walnut St., Phila.

LEVELS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
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LIGHT IRON CONSTRUCTION.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Montgomery Iron & Steel Co.,
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809 Master St., Phila.

LUMBER.
Felin, Chas. F., & Co.,
Old York Road, above Butler St., Phila.
Haney-White Co. .....17th and Glenwood, Phila.
Irwin, James M., & Co. .....976 N. 8th St., Phila.
Kugler, Geo. W., & Sons Co.,
915 New Market St., Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

MARBLE MOSAIC.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
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METAL LATH.
Donnelly & Co. .....319 Vine St., Phila.
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METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

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Haney-White Co. .....17th and Glenwood, Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

MORTAR COLORS.
French, Samuel H., & Co....4th and Callowhill Sts.

ORNAMENTAL IRON.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Montgomery Iron & Steel Co...1832 N. 9th St., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

PAINTING (Plain and Decorative).
Clark, M. H. .....58th and Larchwood Ave., Phila.
Murphy, John J., & Co. .....1835 Ludlow St., Phila

PAINTS AND VARNISHES.
French, Samuel H., & Co.....4th and Callowhill Sts.
Truscon Laboratories.....1432 S. Penn Square, Phila.

PAVING BRICKS.
Ketcham, O. W. .....Builders' Exchange, Phila.

PHOTOSTATS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.

PIPE COILS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

PIPE AND PIPE FITTINGS.
Grant, Chas. J., Supply Co.....1215 Arch St., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Vogel, Joseph, Co. .....Wilmington, Del.

RANGES
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATORS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

ROAD WORK.
Croyle, Guy .....Merion Station, Pa.

ROOFING.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.
Tinney, Walter H., Co.,
63rd and Woodland Ave., Phila.

ROOFING SLATE.
Baird, A. S. .....24 S. 7th St., Phila
Chapman Slate Co. .....Bethlehem, Pa.
Emack, The John D., Co. .....Otis Bldg., Phila.

ROOFING TILE.
Baird, A. S. .....24 S. 7th St., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

SAFETY GUARDS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

SAND AND GRAVEL.
Baird, A. S. .....24 S. 7th St., Phila.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co.,
24th and Callowhill Sts., Phila.
Magna Sand Co. .....139 S. 3rd St., Phila.

SEWER PIPE.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

SHEET METAL WORK.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Tinney, Walter H., Co., 63rd and Woodland Ave.

SHEETROCK (Wall Board)
Pearce Fireproof Co. .....1345 Arch St., Phila.

SHINGLES (Asbestos and Asphalt).
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.

SOUNDINGS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.....Bourse Bldg., Phila.

STAIRS (Sheet Steel).
McFarland-Meade Co.,
70th and Kingsessing Ave., Phila.

STEEL SASH.
McFarland-Meade Co., 70th and Kingsessing Ave.

STONE.
Fox Croft Quarry Co. .....24 S. 7th St., Phila.

STRUCTURAL STEEL.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Montgomery Iron & Steel Co..1832 N. 9th St., Phila.

STUCCO.
Daniel C. Sinclair.....East Lansdowne, Pa.

SURETY BONDS.
Stokes, Packard, Haughton & Smith,
434 Walnut St., Phila.

TERRA COTTA (Architectural).
Conkling-Armstrong Terra Cotta Co.,
Denckla Bldg., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

TERRA COTTA SEWER PIPE.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

TILE AND TERRAZZO WORK.
French, Samuel H., & Co.4th & Callowhill Sts., Phila.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Jannetti & Carroll.....1541 Dickinson St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

TRANSITS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H.....1209 Arch St., Phila.
Warren-Knight Co.....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

VENTILATING SYSTEMS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

WALL BOARD (Sheetrock)
Pearce Fireproof Co. .....1345 Arch St., Phila.

WALL COPING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

WATER HEATERS.
Borden Stove Co.....1311 Arch St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

WATER PAINT.
Southern, Wm. B., N. W. Cor. 12th and Spruce, Phila.

WATERPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

WHITEWASHING.
Southern, Wm. B.,
N. W. Cor. 12th and Spruce Sts., Phila.

WINDOW GUARDS (Wire).
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

WIRE PARTITIONS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

WIRE WORK.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

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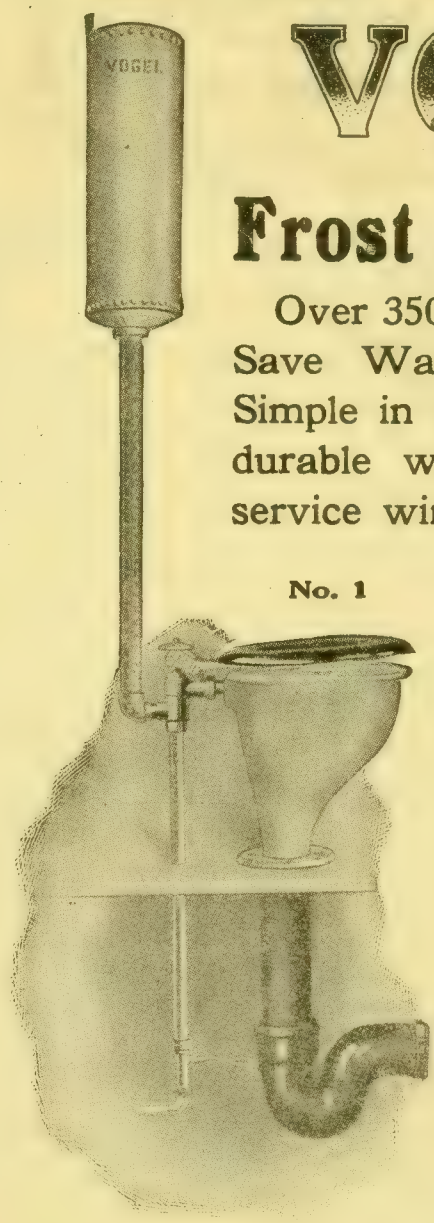
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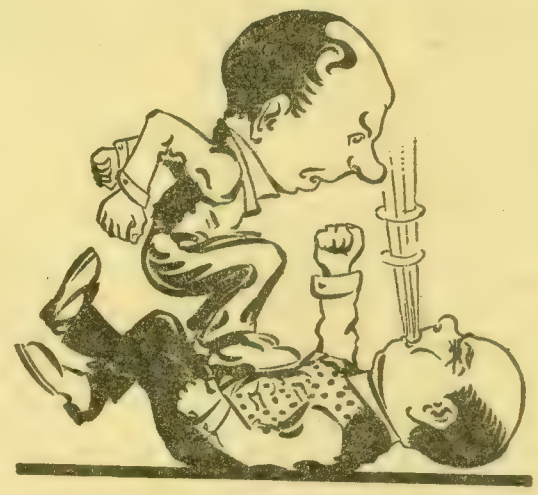
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Vol. XXXVII, No. 16
April 19, 1922

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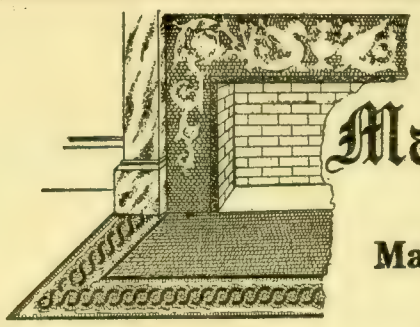
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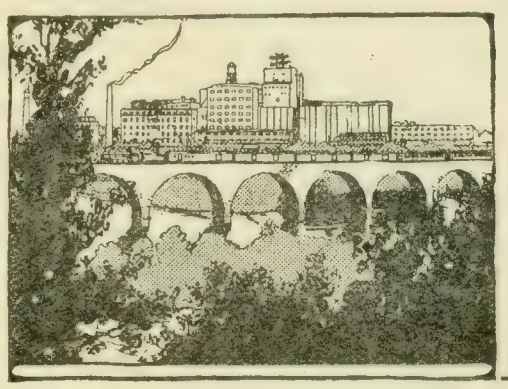
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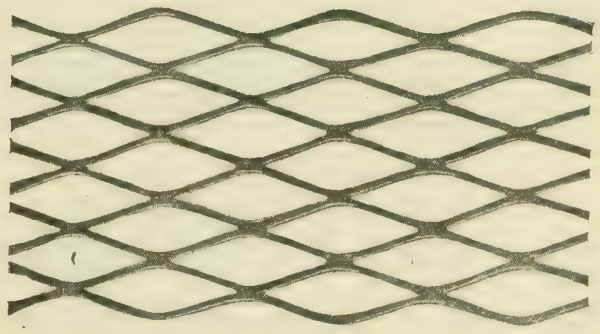
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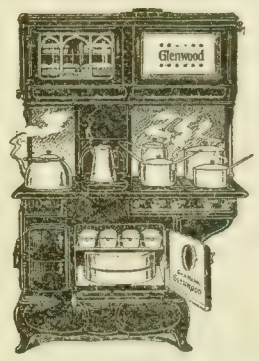
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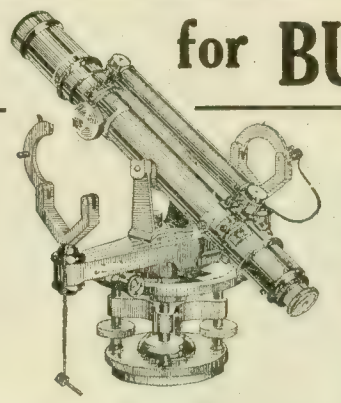
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 16

PHILADELPHIA
April 19, 1922

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
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As The Editor Sees It

THE construction industries proved in their interesting and comprehensive displays at the National Construction Conference, April 3, 4, 5, 6, at the Drake Hotel, Chicago, that every branch and all associations concerned are concentrating on the problem of reaching the irreducible minimum in the cost of construction and elimination of waste.

The various trade associations showed that they were ready to back up Secretary Hoover's constructive program for the real fundamental activities of collective action by associations properly conducted. Their discussions and displays demonstrated that tremendous progress has been made through these economic and soundly organized groups in elimination of waste and unnecessary cost of construction. For example, the Associated Tile Manufacturers showed the varieties of their products reduced from 735 to 115, that in the case of a cap, for instance, they have reduced from nine varieties to one. They showed the splendid co-operative service they are rendering architects and engineers, industrial plants and other users all for the benefit of the general public. The Paint and Varnish Industry showed the forward steps they have taken along safe and sane lines of co-operative effort. Other similar instances could be cited from all branches.

In fact the whole meeting bore out the slogan adopted by the National Federation of Construction Industries as the key note inscribed on the badge or pin given its membership and all attending the conference, "The Strength of an Industry is its Service to the People."

While the convention was not a large one in number of people present, it was the most representative gathering of every interest involved in the betterment of all construction, besides Secretary Hoover and other representatives of the Department of Commerce. Either the President or Vice President or official representative was present of each national organization, representing bankers, building and loan companies, insurance interests, builders, builders' exchanges, realtors, railroad and public utility construction departments, architects, engineers, Federal, State and municipal construction departments, subcontractors, material producers, manufacturers, wholesale and retail dealers and publishers of the papers serving these fields and joint research organizations maintained by all of these groups, such as the American Engineering Standards Committee.

A better co-ordination of associations is to grow out of the meetings with the unification of programs of each association to secure the most effective results and elimination of all duplication of effort and unnecessary organization expenses, so that as one man put it, "The construction associations will not expend eighty per cent. of their income on organization and only twenty per cent. on actual effective service rendered."

Never before has such a unanimous willingness been evinced on the part of all interests and all associations to work together on such a commendable program. Undoubtedly within a short time we shall see evolved a method whereby the total costs of the necessary associations in the field of construction industries will be reduced but more effective results secured.

All attending felt the spirit of the resolutions proposed by Mr. Reaugh at the recent Memphis convention of the National Association of Builders' Exchanges and much progress was made in carrying on their purpose as a result of the meetings held during the Conference by the various interests involved.

The following members were elected to the Board of Directors: Mr. F. W. Walker, Executive Secretary of the Associated Tile Manufacturers, Beaver Falls, Pa.; D. Knickerbacker Boyd, Architect and Structural Standardist, Philadelphia, Pa.; Mr. E. J. Russell, Architect, St. Louis, Mo., to fill the vacancies on the Board. The other Directors and officers were retained, Mr. E. T. Trigg, President and Mr. W. S. Hays, Secretary. Some of the more important resolutions passed at the Conference were:

Co-operative Trade Associations

WHEREAS, the National Federation of Construction Industries regards the

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existence of co-operative trade associations, properly conducted, as of very great benefit to the construction industry and to the public interest; and

WHEREAS, grave uncertainty exists in regard to the extent to which such co-operative associations may operate without violation of law; and

WHEREAS, this Federation regards with approval the efforts of the Secretary of Commerce and of the Attorney General to ascertain the limits within which such Associations can legally carry on their work; and

WHEREAS, it approves all efforts to continue the beneficial operation of such associations:

Therefore Be It Resolved, that this Federation believes that such co-operative associations should be relieved from uncertainties and from the possibility of unintentional violation of law by amendments to the Anti-Trust statutes which will more clearly define their extent, and will state with exactness the co-operative action permitted to such associations, that this Federation believes that such associations should be permitted to define their purposes and to specify their proceedings to the Department of Commerce for review and approval.

Be It Further Resolved, that a copy of these resolutions be transmitted to both Houses of Congress to the end that such amendments may be passed.

Congressional Resolution on Trade Associations

WHEREAS, a joint resolution has been introduced in the Congress of the United States asking for the appointment of a joint committee to consider and advise as to legislation affecting business co-operation; and

WHEREAS, this Federation is aware of the need of such legislation for the fullest development of the commercial fabric of the nation,

Resolved, therefore, that the National Federation of Construction Industries, in convention assembled, heartily endorses the efforts of Senator Edge, of New Jersey, and Representative McArthur, of Oregon, to bring his need to the attention of Congress; and be it further

Resolved, that a copy of this resolution be transmitted to the introducers.

Education in Home Building

WHEREAS, another field of opportunity for the continued activity of this Federation lies in the exercise of its function as a leader of public thought in the construction field; and

WHEREAS, there is a definite need for educational publicity to encourage the ownership of homes by their occupants, to the end, as expressed by Secretary Hoover, that this may become more and more a nation of home owners; and

WHEREAS, the advisability of building and owning homes may be impressed upon the minds of a larger percentage of American citizens just as effectively and beneficially as those same minds have been taught, by means of publicity, to save money, to invest in securities, and to do other wholesome and profitable things; and

WHEREAS, home building has been in many instances discouraged by the spread of false beliefs that home ownership is not as profitable as other forms of investment; and

WHEREAS, the dissemination of the home building idea would go far toward stabilizing the building industries and thereby leveling the high peaks and low spots of construction activities, thus creating a field for permanent welfare work on the part of this body; therefore be it

Resolved, that the President of the Federation appoint a Committee of five whose duty it shall be to investigate the possibilities of financing such a campaign of education and ascertain whether or not the various building interests here represented can be brought together for such co-operative work; and be it further

Resolved, that this Committee be instructed to meet at the earliest convenient time, make its plans and recommendations, and submit a report to the Board of Directors of the Federation at such time and place as the Chairman of that Board may designate.

Instruction in Building Trades

WHEREAS, the National Federation of Construction Industries looks with great alarm upon the insufficient supply of skilled mechanics to do the building construction absolutely required for the development of the country, and

WHEREAS, there seems to be wholly insufficient provision for proper instruction and training of young men in the building trades, therefore be it

Resolved, that this Federation consider and make it one of its purposes to encourage the establishment of proper schools and to use other means for the training and instruction of building craftsmen; and be it further

Resolved, that the Chairman appoint a Committee or Committees to study these problems and submit to the Board of Directors, for its action, a plan of procedure.

Financing of Home Building

WHEREAS, the National Federation of Construction Industries regards the construction of homes for people of moderate means as one of the first essentials to the welfare of the United States, and believes that the individual ownership of homes should be encouraged in every possible way, be it

Resolved, that this Federation believes it to be of the utmost importance that the financing operations for the construction of small homes should be carried on with the least possible expense to the home builder, permitting him to pay the cost of the home in installments consistent with his income.

Resolved Further, that the members of this Federation are urged to call to the attention of the members of the several Legislatures the importance of legislation which shall encourage the formation of Building Associations and the extension of their operations under proper safeguards, and to the need of encouraging investments in such buildings to the largest possible extent.

Taxation of Incomes from State and Municipal Bonds

WHEREAS, the National Federation of Construction Industries views with solicitude the discouragement of investment in private construction through the freedom from taxation of incomes issued by States and subdivisions thereof, be it

Resolved, that this evil should be remedied by the passage of an amendment to the Income Tax provisions of the Constitution giving authority to Congress to tax incomes derived from such bonds on exactly the same basis as other incomes; and be it

Further Resolved, that a copy of this resolution be forwarded to the Senate and the House of Representatives of the United States.



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Factory Building, Margaret and James streets, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets. Owners, Blumenthal Brothers, Margaret and James streets. Brick, concrete and steel, 4 stories, 80x250 feet, slag roof, electric lighting, steam heating, cement work. Plans in progress.

Factory Building, Southeast Corner Eleventh and Wood streets. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owner, John J. McLaughlin, care of architect. Brick and steel, alternate for 3 or 8 stories, 96x80 feet. Plans in progress. Will take bids in a week.

Residence (alts. and add.), 5917 Drexel Road, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Fred A. Rakestraw, on premises. General alterations and additions. Plans completed. Architect will be ready for bids in a few days.

Residence, Queen Lane Manor, Philadelphia. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Mrs. Ensley, care of architect. Brick and hollow tile, 2½ stories. Plans completed. Architect is ready for bids.

Sales and Service Building, 1409-11 North Broad street. Architect, Leroy B. Rothschild, 1225 Sansom street. Owner, Joseph J. Greenberg, Morris Building, Philadelphia. Brick, concrete and steel, 6 stories, 55x150 feet, slag roof, metal lath, elevators, steam heat, electric light. Plans in progress.

Building (alts.), 1813 Walnut street, Philadelphia. Architect, not yet selected. Owners, George Barrie's Sons, 1313 Walnut street. Alterations to store and offices. Work contemplated.

Factory (alts.), 806-08 Green street, Philadelphia. Architect, private plans. Owners, S. S. Glassgold & Co., Eighth and Green streets. General interior alterations, concrete work, mill work, brick repointing, painting, electric work. Plans in progress. Owner is ready for sub-bids.

Residences (27) and Community Garage, Chew and Haines streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Philip Robin, 2872 East Memphis street. Brick, 16x40 feet and 15x36 feet, slate and slag roof, hardwood and pine floors, tin roof, hot water heat, electric light, tile work. Architect taking sub-bids. Garage to accommodate 56 cars, 28 garage privileges, cement work.

Residence, No. 2, Northeast Corner Lincoln Drive and Sedgwick street. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, James M. Armstrong, 718 Sansom street, Philadelphia. Fisk-locke brick, 2½ stories, 41¾x24½ feet, wing 21x6 feet, garage, slate roof, hot water heat, tile work, hardwood floors (heating and plumbing reserved). Architect taking bids due April 24th.

Residence, No. 1, Lincoln Drive and Sedgwick street, Philadelphia. Architect, Thomas B. Lippincott, 11 South Sixteenth street. Owner, James M. Armstrong, 718 Sansom street, Philadelphia. Fisk-locke brick, 2½ stories, 41¾x27 feet, wing 6x17 feet, slate roof, hot water heat, electric light, tile work, cement work, hardwood floors, garage (plumbing and heating reserved). Architect taking bids due April 24th.

Store (alts.), 623 South street, Philadelphia. Architects, Ballinger & Co., Twelfth and Chestnut streets. Owners, E. M. Goldman, Inc., on premises. Brick and steel, 3 stories, 12x15 feet, slag roof, pine floors, electric light, kalamein doors, iron work. Architect taking bids due April 20th.

Stadium, Franklin Field, Thirty-fourth and Spruce streets. Engineers, Gavin Haddon, 233 Broadway, New York City, and Horace T. Campion, Otis Building, Philadelphia. Architects, Day & Klauder, 1416 Chestnut street, Philadelphia. Concrete, steel, brick and cut stone, surrounding 870x390 feet, canvas roof, hollow tile, waterproofing, marble and terrazzo, hollow metal sash, bond, iron work. Horace T. Campion taking bids due April 21st.

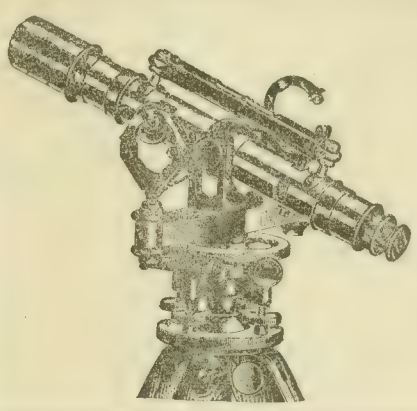
Apartment House (add.), 1330-36 Pine street, Philadelphia. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owners, Kennington Apartments, care of Yarrow & Van Pelt, 1505 Walnut street. Brick, cut stone and steel, 6 stories, 32x80 feet, slag roof, oak and pine floors, steam heat, electric light, tile, marble and terrazzo, iron work, (1) elevator. Architect taking bids due April 22nd.

Sewer, Frankford avenue, Camp Happy to Carwithan street. Owners, Department of Public Welfare, B. H. Warburton, Director, 592 City Hall. Owners taking bids due April 20th at noon.

Miscellaneous Work, Bureau of Water, Philadelphia. Owners, Department of Public Works, Bureau of Water, Frank H. Caven, Director, 216 City Hall. Furnishing single nozzle, fire hydrants, repairs to chimneys, Lardner's Point, plumbing at headquarters building, Lardner's Point, and laying high pressure main. Owners taking bids due April 25th at noon.

Miscellaneous Work and Supplies, Bureau of Highways, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Frank H. Caven, Director, 232 City Hall, Philadelphia. Grading, asphalt paving, country road improving, redressed granite block repaving, grading, paving and repaving York road, improvement of Delaware avenue, materials for repairs to bridges. Owners taking bids due April 21st at noon. Inquire Room 232.

Building (alts.), 1516 Chestnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, George S. Graham, care of architect. New front, brick, cut stone, artificial stone and steel, slag roof, maple floors, metal lath, plastering and ornamental plastering, cold water painting, roof ventilators, leaded glass, waterproofing, iron work, metal bulks, bond, kalamein doors, hollow metal sash and skylights, tile and marble (heating, electric work,



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plumbing and elevators reserved). Architect taking bids.

Swimming Pool and Bath House, Second below Cumberland street. Architectt, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Lowest bidders: Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, $26,497; McCloskey, Inc., 1620 Thompson street, $27,777. Plumbing, Bulman Brothers, Fifth and Cumberland streets, $2,446. Electric, Walker & Kepler, 431 Chestnut street, $834.

Hotel Apartments, 3900 Chestnut street, and **Power House**, 3905 Sansom street, $1,025,000. Architect, Clarence Wunder, 1415 Locust street, Philadelphia. Owners, Pennsylvania Apartments, Inc., 3904 Chestnut street. Brick, tile and concrete, 10 stories, 140x220 feet, 35x107 feet, and 2 stories, 25x108 feet, slag roof, oak and pine floors, steam heat, electric light, tile and marble work. Owners will build.

Residences (32), Sixty-seventh, Lebanon avenue and Edgemore street, and **Residences and Stores (4)**, $196,000. Architect, private plans. Owner, John F. McGinty & Son, 6514 Lebanon avenue, Philadelphia. Brick, 2 stories, 16x32½ feet, slag roof, hot water heat, electric work. Owner will build.

Residences (12), Olney avenue, East of Eleventh street, $55,600. Architect, private plans. Owner, Charles A. Mahon, 5530 North Fifth street, Philadelphia. Brick, 2 stories, 15½x28 feet 8 inches, 12 feet 8 inches x 15 feet 4 inches, slag roof, hot water heat, electric light. Owner will build.

Manufacturing Building (add.), Tabor Road and Perry street, Philadelphia, $11,000. Architect, private plans. Owners, F. J. Stokes Machine Co., on premises. Brick, concrete and steel, 1 story, 140x91 feet, slag roof, concrete and pine floors, hollow tile, metal lath, fire doors, rolled steel sash, electric light, concrete foundations. Owner will build.

Garage (add.), 5151 Lancaster avenue, Philadelphia, $10,000. Architect, private plans. Owner, A. J. Boylan, 5147 Lancaster avenue, Philadelphia. Brick, 1 story, 37x24 feet, 18x14 feet and 157½x36 feet, slag roof, hot water heat, electric light, cement floors. Owner will build.

Residence, Northeast Corner Westmoreland and Mercer streets, $7,000. A rchitect, private plans. Owner, Harry Brocklehurst, 512 West Norris street, Philadelphia. Brick, 2 stories, 17x47½ feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residence, South side Byberry Road, West of Bustleton avenue, $5,500. Architect, private plans. Owner, C. S. Worthington, Somerton, Pa. Frame, 2 stories, 28x40 feet, shisngle roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (10), North side Washington Lane, East of Jefferson street, $5,500 each. Architect, John W. Keyes, 20 East Jefferson street. Owners, Samuel Harting & Son, 20 East Johnson street. Brick, 2 stories, 18x34½ feet, tile roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (2), Washington Lane, East of Jefferson street, $6,000. Architect, John W. Keyes, 20 East Jefferson street, Philadelphia. Owners, Samuel Harting & Son, 20 East Johnson street, Philadelphia. Brick, 2 stories, 20x34½ feet, tile roof, oak and pine floors, hot water heat, electric light. Owner will build.

Shop (alts.), Hamilton street, West of Eighteenth street, $5,250. Architect, private plans. Owners, Baldwin's Locomotive Works, on premises. General alterations. Owners will build.

Apartment House (3-family), 5329 Vine street, $12,000. Architect, private plans. Owner, William A. Patterson, 5333 Vine street, Philadelphia. Brick and steel, 3 stories, 30x108 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residence, Northeast Corner Fiftythird and Diamond streets, $5,500. Architect, private plans. Owner, Daniel E. Hogan, 6044 Columbia avenue, Philadelphia. Brick, 2 stories, 16 feet 8 inches x 43 feet, slag roof, oak and pine floors, hot water heat, e,lectric light. Owner will build.

Residences (13), Limekiln Pike, North of Wyncotte street, $3,500 each. Architect, private plans. Owners, Griffith & Holland, 4737 North Camac street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, yellow pine floors, hot water heat, electric light. Owner will build.

Locker House and Residence, Coulter street, Germantown. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Germantown Friends' School, on premises. Hollow tile, stucco, brick and cut stone, 2½ stories, 66x26 feet, shingle roof, pine floors, hollow tile, waterproofing, iron work, bond, metal lath, hot water heat, electric light. Architects taking bids due April 24th at noon.

Residence and Store (alts. and add.), 284 West Rittenhouse street. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, David Rosenbaum, on premises. Brick, 2 stories and basement, add. 16x16 feet, tin roof, reinforced concrete work, pine floors, plumbing, flush bulks, plate glass (heating and lighting reserved). Revised plans in progress.

Residences and Garages (2), Lincoln Drive and Sedgwick street. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, James M. Armstrong, 718 Sansom street, Philadelphia. Brick, 2½ and 1½ stories, 41x24 feet, garages 18x10 feet, slate roof, oak and yellow pine floors, electric light, tile and marble work, bond, ornamental iron work. Architect taking bids due April 24th.

Residences (6), Price and McMahan streets, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, Edward F. Bennis, Germantown and Chelten avenues. Brick, 2½ stories, 17x41 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Architects taking bids due April 21st at noon.

Building (alts. and add.), 630-32 Race street, Philadelphia. Architect, E. A. Stopper, 1507 Arch. street, Philadelphia. Owner, William Frizlen, 145 North Seventh street, Philadelphia. Steel, brick, 2 and 3 stories, slag roof, concrete and pine floors, steam heat, electric light, sheet metal work, rolled steel sash, hollow tile partitions, plumbing. Architect taking bids due April 20th.

Office Building, Northeast Corner Walnut and Juniper streets. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Middle City Realty Co., Juniper and Walnut streets. Brick and cut stone, 17 stories, basement and boiler room, 230x53 feet,

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slag roof, cement floors, vacuum steam heat, electric light, metal lath, marble work, rolled steel skylights, Bond, iron stairs and work, hollow tile, elevators, waterproofing, architectural terra cotta (structural metal work reserved). Architect taking bids due April 25th.

Residence, Upsal street, West of Wissahickon Drive. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, N. Seideman, 121 North Seventh street, Philadelphia. Stone, 2½ stories, 31x40 feet, garage, 1 story, 16x22 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will be ready for bids in two weeks.

Apartment (alts.), 609 North Sixteenth street, $3,000. Architect, private plans. Owner, S. M. Fellows, on premises. General interior alterations. Owner will build.

Residences (4), Rising Sun avenue, North of Bleigh street, $3,250 each. Architect, private plans. Owner, George Krewson, Cheltenham, Pa. Brick, 2 stories, 15x28 feet and 12x10 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Garage, 5438 Race street, Philadelphia, $9,000. Architect, private plans. Owner, Thomas C. Duffey, 5440 Race street, Philadelphia. Brick, 1 story, 50x140 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Residence, Northwest Corner Eighth and Louden streets, $8,000. Architect, private plans. Owners, W. Fischer's Sons, Eighth and Rockland streets, Philadelphia. Brick, 2 stories, 17 feet 10 inches x 46 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence, West side Erdrick street, North of Comly street, $4,000. Architectt, private plans. Owner, George G. Dunlap, 3400 Higbee street, Philadelphia. Brick, 1 story, 29x36 feet, slag roof, oak and yellow pine floors, pipeless heater, electric light. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Apartment House, Eighteenth and Rittenhouse streets, $600,000. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Charles J. McIlvaine, Jr., Otis Building, Philadelphia. Brick, concrete and steel, 15 stories, slag roof, reinforced concrete, hardwood and composition floors, hollow tile, metal lath, elevators, tile and marble, steam heat, electric light, iron work. Contract awarded to Metzger, Fisher & White, Otis Building.

Apartment House, Wakeling and Saul streets and Frankford avenue, $71,000. Architects, Lachman & Murphy, Drexel Building. Owner, George T. Sale, Liberty Building, Philadelphia. Brick and steel, 3 stories, 66x86 feet, slag roof, oak and pine floors, metal lath, terra cotta, iron work, hot water heat, electric light, tile work. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Sales and Service Building, 1155-57 South Broad street. Architect, R. W. Pollock, 1802 Chestnut street. Owner, Joseph A. Cunningham, on premises. Brick, cut stone and concrete, 2 stories, 46x52 feet, slag roof, composition floors, roof ventilators (heating, plumbing and light reserved), architectural terra cotta. Contract awarded to Conneen Const. Co., 10 South Eighteenth street.

Garage, Store and Residence, Fourth and Snyder avenue, and **Shop**, Fourth and Cantrell streets, $30,000. Architect, private plans. Owner, Joseph Koffman, 525 Snyder avenue, Philadelphia. Brick, 1 and 2 stories, 71½x46 feet, 217x72 feet, 19x40 feet and 16x33 feet, 14x19 feet, slag roof, cement and pine floors, oak floors, hot water heat, electric light. Contract awarded to P. Savar, 718 Snyder avenue, Philadelphia.

Garage, St. Martin's and Hartwell Lane, Philadelphia. Architects, Bailey & Bassett, 421 Chestnut street. Owner, Fred H. Strawbridge, on premises. Stone, brick and stucco, 1½ stories, 20x26 feet, shingle roof, cement floors, electric light. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Fire Insurance Patrol House, Fifty-first and Sansom streets. Architects, Rankin, Kellogg & Crane, 1012 Walnut street. Owners, Fire Insurance Patrol of Philadelphia, William Gardner Crowell, president, 510 Walnut street. Brick, 2 stories, 40x66 feet, slag roof, pine and concrete floors, steam heat, electric light, waterproofing. Contract awarded to Roydhouse-Arey Co., 112 North Broad street.

Hospital (add.), 241 North Eighteenth street, Philadelphia. Architect, private plans. Owner, Dr. Joseph Price Hospital, on premises. Brick, 3 stories and basement, 14x35 feet, slag roof, pine floors, hot water heat (electric light reserved), plumbing, masonry, carpentry, mill work, hardware, plastering. Contract awarded to Carr & Courtney, Twenty-third and Green streets.

Garage, 2524 North Broad street, Philadelphia, $11,000. Architect, Jerome S. Landes, Soudertown, Pa. Owner, J. J. Gilman, 1126 Girard avenue. Brick, 2 stories, 25x76 feet, slag roof, cement floor, electric lighting, steam heating. Contract awarded to Philip Savar, 718 Snyder avenue, Philadelphia.

Business Building (alts.), 2109 Walnut street. Architect, H. Rex Stackhouse, 129 South Fifth street. Owner, Henry G. Reifsnyder, Manheim Apartments, Germantown. General alterations, hot water heat, plumbing, electric work, tile work, hardwood floors, etc. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Bakery (add.), Hunting Park avenue and McMichael street, $25,000. Owners, Tasty Baking Co., 2335 Sedgley avenue. Brick and concrete, 5 stories, 20x100 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash, iron work, waterproofing. Contract awarded to Turner Const. Co., 1713 Sansom street.

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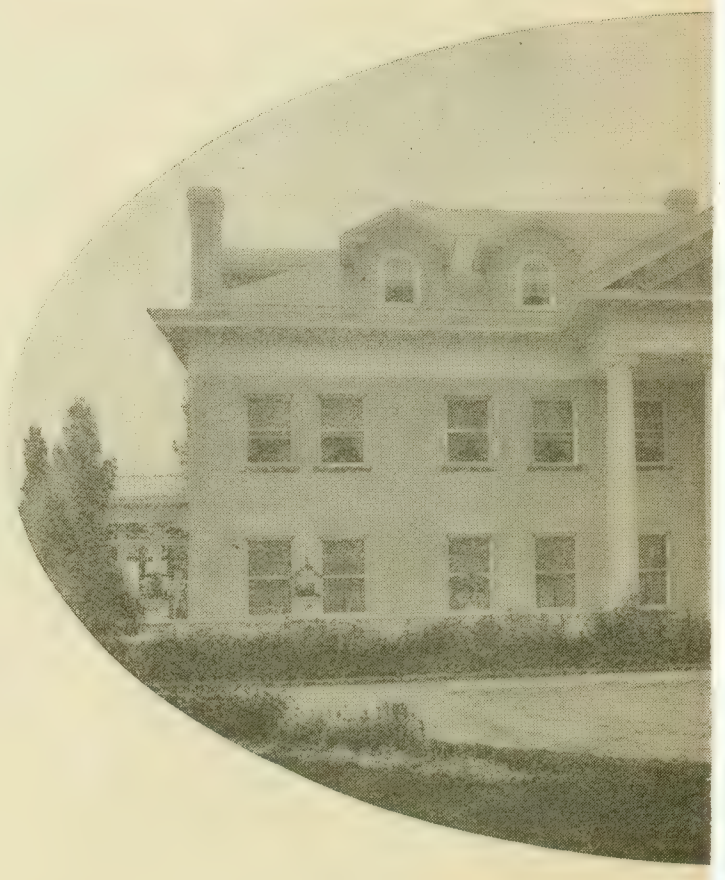
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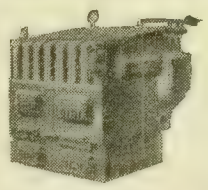
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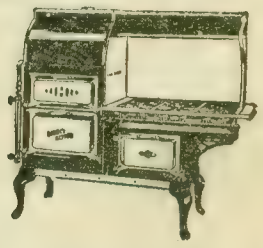
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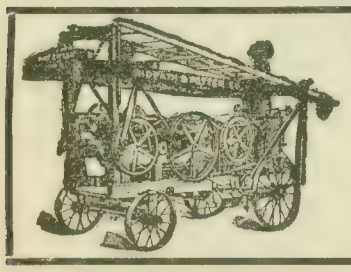
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Junior High School, Fifty-fourth and Warrington avenue. Owners, Board of Education, Nineteenth above Chestnut street. Brick, cut stone and steel, 3 stories and basement, 290x182 feet, composition and asbestos shingle roof, concrete and maple floors, metal lath, metal window guards, waterproofing, terra cotta, cold water painting, iron work and stairs, steel doors, rolled steel sash and skylights, tile, marble and terrazzo work. Contract awarded to P. H. Kelly Const. Co., 1713 Sansom street, $639,500. Plumbing, D. J. Keating, 2042 Rittenhouse street, $30,888. Heating, Austin, Gorham & McIlvain, 1816 Ludlow street, $78,354. Electric, Ross Const. Co., Beach and Brown streets, $31,300.

Junior High School, Thirteenth and Louden streets. Architect, private plans. Owners, Board of Education, J. D. Cassell, Nineteenth above Chestnut street. Brick, cut stone and steel, 3 stories and basement, 290x182 feet, composition and asbestos shingle roof, concrete and maple floors, metal lath, metal window guards, waterproofing, terra cotta, cold water painting, iron work and stairs, steel doors, rolled steel sash and skylights, tile, marble and terrazzo work. Contract awarded to P. H. Kelly Const. Co., $623,750. Electric, George Woodward, Jr., 1723 Sansom street, $30,920. Heating, Austin, Gorham & McIlvaine, 1816 Ludlow street, $78,337. Plumbing, D. J. Keating, 2042 Rittenhouse street, $30,444.

Elementary School, Lansdowne avenue and Prentiss avenue, Philadelphia. Owners, Board of Education, J. D. Cassell, Nineteenth above Chestnut street. Brick, cut stone and steel, 3 stories, 170x146 feet, mastic asphalt, maple and cement floors, metal lath, slag roof, metal weather strips, waterproofing, terra cotta, iron work, rolled steel doors, tile and marble work. Contract awarded to Sinclair & Griggs, Medical Arts Building, Philadelphia, $835,000. Electric, Walker & Kepler Co., 531 Chestnut street, $15,545. Heat, McClintock Brothers, 5216 Webster street, $43,500. Plumbing, N. Connolly, 1404 North Eighteenth street, $18,333.

Store Building, 334-36 North Thirteenth street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, P. J. Collins, Lansdowne, Pa. Brick, 2 stories, 35x47 feet, slag roof (plumbing, heating and electric work reserved). Contract awarded to Frank & Kaiser, 1517 South Sixth street.

Building (alts.), 3634 North Broad street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Dr. J. Henry Hinchcliffe, 3323 North Broad street. Brick, carpentry, mill work, canvas roof, metal lath, hardware, painting, glazing, hot water heat, electric light, plumbing. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Residence (add.), 6808 Torresdale avenue, $4,000. Architect, private plans. Owner, Samuel E. Feaster, on premises. Brick, 2 stories, 25x25 feet, slag roof, oak and yellow pine floors, electric lighting. Contract awarded to Louis Dietrich, 3016 Comly street.

Garage, 109 East Mentor street, Philadelphia, $3,500. Architect, private plans. Owner, Robert I. Warren, 4928 North Front street, Philadelphia. Brick, 1 story, 18x112 feet, slag roof, cement floors, electric lighting. Contract awarded to Louis W. Folscheid, 4734 North Ella street.

Storage Building, 1759 North Hope street, Philadelphia, $3,000. Architect, private plans. Owner, Isaac G. Ferguson, Northwest Corner Front and Palmer streets. Brick, 2 stories, 18x42 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Robert Beatty & Bro., 2321 East Fletcher street.

Opera House (alts.), Broad and Poplar streets, $35,000. Architect, private plans. Owners, Lulu Temple, on premises. Stores on first floor on Broad street and Thompson street. Plans not yet completed. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Store and Two-Family Residence (alts. and add.), 3632 North Broad street, $6,000. Architect, William H. Wooters, 816 West Allegheny avenue. Owner, Theodore Marquetand, care of architect. Brick and terra cotta, 1 story, 15x22 feet, slag roof, maple floors, heating and lighting extensions, general alterations. Contract awarded to J. L. Loux, Fifteenth and Hunting Park avenue.

Slaughter House and Garage, 2838-44 North Twenty-eighth street. Architect, D. D. Weitz, Real Estate Trust Building. Owner, S. Weitz, care of architect. Contract for reinforced concrete floors, concrete roof, retaining walls, etc., awarded to Frederik Massiah, Juniper and Cypress streets, $14,800.

Stores and Offices, 4352-54 Main street, Philadelphia, $7,100. Architect, private plans. Owner, C. H. Maurer, 4345 Main street, Philadelphia. Brick, 3 stories, 31x37 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Brown Const. Co., 105 Levering street.

Residence and Store (alts. and add.), 6702 Torresdale avenue, $5,000. Architect, private plans. Owner, Harry Long, Torresdale avenue and Longshore street, Brick, 2 stories, 20x14 feet, slag roof, oak and pine floors. Contract awarded to Thomas Duff, 4666 Wyoming avenue, Philadelphia.

Residence and Garage, 3220 Penn street, Philadelphia, $12,000. Architect, private plans. Owner, William D. Duff, on premises. Brick, 2 stories, 25x34 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Albert A. Winterbottom, 3651 North Percy street.

Residence, West side Verree Road, South of Napfle street, $9,000. Architect, private plans. Owner, Harry Ernst, 3241 Joyce street, Philadelphia. Frame, 2 stories, 24x34 feet, shingle roof, pine floors. Contract awarded to Lewis Dietrich, 3016 Comly street, Philadelphia.

Bungalow, Rex and Ridge avenue, Philadelphia. Architect, private plans. Owner, Herman F. Wagner, on premises. Stone, 1 story, 40x26 feet, slate covered shingle roof, pine floors. Contract awarded to W. W. Anstine, 1218 Filbert street.

Store (alts.), 4 North Eleventh street. Architect, Leroy B. Rothschild, 1225 Sansom street. Owners, Heymann Brothers, Widener Building. New bulk, painting, glazing, carpentry. Contract awarded to John Schnabel, Inc., Denckla Building.

Residence (add.), 1021 West Dauphin street, Philadelphia, $3,000. Architect, private plans. Owner, William Kairnes, on premises. Brick, 3 stories, 12x12 feet, slag roof, pine floors, electric lighting. Contract awarded to B. F. Virdin, 2917 Fletcher street.

Building (alts.), 1524 Sansom street, Philadelphia, $3,000. Architect, private plans. Owner, A. R. Belfi, Middle City Building, Philadelphia. General interior alterations, painting, glazing, plate glass. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Residence, 1611 Chew street, $4,600, and **Residences (8)**, 6313-6327 Chew street, Philadelphia, $4,000 each. Architect, private plans. Owner, David Hurwitz, Washington Lane and Chew street, Philadelphia. Brick, 2 stories, 16x42 feet, and (8) 15x30 feet, 12½x11 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Meyer Teitelman, 1468 Bradley avenue, Camden, N. J.

Residences and Stores (5) and **Residence (1)**, Torresdale avenue, North of Van Kirk street, $34,000. Architect, private plans.

Owner, Lena Kohson, on premises. Brick, 2 stories, 20x50 feet, 16x30 feet and 13x20 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to H. Brocklehurst, 512 West Norris street.

Residence (add.), South side Wingate, West of Tulip street, $5,000. Architect, private plans. Owner, John Harrison, Jr., on premises. Brick, 1 story, 48x49½ feet, slag roof, cement floors, steel sash, electric lighting. Contract awarded to Barclay White & Co., 1713 Sansom street.

Building (add.), 1420 McKean street, $4,500. Architect, private plans. Owner, John J. Murphy, on premises. Brick, 3 stories, 12x13 feet, 12x20 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Thomas F. Manley, Clifton Heights, Pa.

Residences, Southeast Corner Stanwood and "F" streets, $3,500. Owner, Charles Wahl, on premises. Frame, 2 stories, 24x34 feet, shingle roof, oak and pine floors. Contract awarded to Joseph Ashley, Fox Chase, Philadelphia.

Residence (add.), 852 East Ontario street, Philadelphia, $2,500. Architect, private plans. Owner, Emma R. Jones, on premises. Brick, 2 stories, 12x12 feet, slag roof, pine floors, hot water heat. Contract awarded to Robert K. Grice, 255 North Fifty-second street, Philadelphia.

Residence and Store (alts.), 861 North Broad street, $2,500. Architect, private plans. Owner, S. B. Fessler, on premises. General interior alterations. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street.

Farm Buildings and Cottages (extensions and add.), Byberry, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, C. L. Furbush, M. D., Director, 584 City Hall. Brick, cut stone, stucco and steel, 2 wings, 1 story, 80x12 feet, tin and shingle roof, pine and composition floors, metal lath. Contract awarded to George H. Evans, Inc., 105 North Thirteenth street, $19,830.

Moving Picture Theatre, Germantown avenue above Diamond street. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Cohocksink Amusement Co., care of architects. Brick, terra cotta and steel, 2 stories, 129x70 feet, slag roof, cement floors, metal lath, roof ventilators, waterproofing and dampproofing, iron work, Bond, hollow metal doors. George W. Stewart, 2123 Germantown avenue, Philadelphia, will build and is taking sub-bids.

Garage and Store, Southwest Corner Ridge avenue and Lyceum street, $29,000. Also 2 **Stores**, 20x43 feet, $3,000. Architect, private plans. Owner, C. Zusloft, on premises. Brick, 1 story, 100x116 feet, slag roof, oak, yellow pine and cement floors, hot water heat, electric light. Contract awarded to Brown Const. Co., 105 Levering street.

Store and Apartment (alts. and add.), 5935 Market street. Architects, MacKenzie & Wiley, Lincoln Building, Philadelphia. Owner, J. Shalet, on premises. Brick, 3 stories, 18x80 feet, slag roof, hardwood and pine floors, hot water heat, electric light, general renovation. Contract awarded to Cerasoli & Scurci, 1709 South Eleventh street.

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Pennsylvania Construction News

Residence and Garage, Overbrook, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, Joseph M. DeLone, Ardmore, Pa. Brick and stucco, 2½ stories, 72x26 feet, wing 30x20 feet, shingle roof, hardwood floors, vapor heating, electric light ,tile and marble work, cement work. Plans in progress.

Residence, Penfield, Pa. Architect, Eugene A. Stopper, 1507 Arch street. Owner, Mrs. A. Constance Conover, Penfield, Pa. Stucco and metal lath, 2½ stories, 56x30 feet, slate roof, oak and pine floors, metal lath, tile and marble work, bond, iron work (heating, lighting and plumbing reserved). Architect taking bids.

Church and Sunday School, Tamaqua, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Zion Lutheran Church, care of Dr. George Gilbert, on premises. Stone, 1 story and basement. Too early for details.

Church (alts.) and Sunday School, Mechanicsburg, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Trinity Lutheran Church, care of architect. Brick, 1 story and basement, 58x68 feet, hardwood floors, general alterations. Sketches in progress.

Church, Thirteenth and Derry streets, Harrisburg, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Christ Lutheran Church, care of architect. Stone, 1 story and basement, 105x55 feet, slate roof, hardwood floors, electric light, vapor heat. Plans in progress.

Synagogue, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, B'Nai Israel Congregation, care of architect. Stone, brick and steel, 1 story, 30x70 feet, steam heating, electric lighting, tile and marble work. Architect will take bids in a few days.

Garage and Tool House, Merion, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, K. Schwartz, Merion, Pa. Stone, 1½ stories, slate roof. Architects will be ready for bids in a few days.

Publishing House, Easton, Pa. Architect, E. H. Chidsey, Easton, Pa. Owners, Easton Publishing Co., Easton, Pa. Brick, terra cotta, granite and steel, 3 stories, basement and mezzanine, 110x47 feet, slate roof, concrete, wood block, maple, composition and cork tile floors, metal lath, hollow tile, safety treads, waterproofing, dampproofing, bond, hollow metal doors, rolled steel sash and skylights, terrazzo and marble (heating, lighting, plumbing and elevators reserved). Architect taking bids due April 24th.

Club House, Conshohocken, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street. Owners, Penn Club, care of William Little, Conshohocken, Pa. Hollow tile and stucco, 42x85 feet. Plans completed. Owner will take bids.

Bank, North Belle Vernon, Pa. Architect, W. L. Stoddart, 9 East Fortieth street, New York City. Owners, People's National Bank, North Belle Vernon, Pa. Brick, steel, granite and cut stone, 2 stories, 60x44 feet, slate roof, cement and pine floors, metal lath, bond, waterproofing and dampproofing, iron work. Architect and owner taking bids due May 1st.

Plant (add.), Phoenixville, Pa. Architect, T. A. Stoutenburg, 1509 Champlost avenue, Philadelphia. Owners, Weiland Packing Co., Phoenixville, Pa. Brick and steel, 2 stories and basement, 52x62 feet and 79x29 feet, composition roof, concrete, composition and pine floors, hollow tile, electric light, metal sash, steel doors, waterproofing, iron work. Owners will build.

Bank Building, Media, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Media Title & Trust Co., Media, Pa. Brick, steel, granite and cut stone, 2 stories and basement, 44x84 feet, slag roof, **cement and cork tile floors**, metal lath, tile and marble work (heating, electric work and plumbing reserved), terra cotta. Architects taking bids due April 25th.

Residences, Rutledge, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, C. S. Walters, Rutledge, Pa. Frame, 25x35 feet, shingle and slag roof, hot air heating, plumbing. Architect will be ready for bids in ten days.

Residence, Rutledge, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, F. W. Evans, Rutledge, Pa. Frame, 2 stories, 28x43 feet, shingle roof, plumbing, hot water heat, brick work. Ready for bids in ten days.

Residence, Brookline, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Charles Lindgren, Merion, Pa. Stone, hollow tile, stucco, 2½ stories, 26x61 feet, slate roof, hardwood floors, pine floors, hot water heat, electric light. Architect taking revised bids from Harry Allen, Brookline, Pa., and Robert G. Ward, 633 North Sixty-third street, Philadelphia.

Pennsylvania Contracts Awarded

Bungalow, York, Pa., $18,000. A rchitects, Gemmill & Billmeyer, Rosenmiller Building, York. Owner, Mr. Jacob S. Sechrist, York, Pa. Stone, 1½ stories, 45x60 feet, red tile roof, hardwood floors, vapor heat, electric light, tile and marble work, porches. Contract awarded to I. Reindollar & Son, York, Pa.

Nurses' Home (add.), Norristown, Pa., $12,000. Architect, Edward T. Boggs, 119 South Fourth street, Philadelphia. Owners, Montgomery Hospital, care of A. T. Eastwick, Bridgeport, Pa. Brick and steel, 2 stories, 50x100 feet, composition and pine floors, electric work, heating extensions. Contract awarded to Frank R. Heavner, Norristown, Pa.

Bridge, Inglenook, Pa. Engineer, A. C. Shand, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Concrete and steel, 380 feet long, 24 feet wide. Contract awarded to James McGraw Co., Commercial Trust Building, Philadelphia.

Bridge, Kapp, Pa. Engineer, A. C. Shand, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Concrete and steel, 350 feet long, 26 feet wide. Contract awarded to A. L. Anderson, Altoona, Pa.

Filling Station, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Jewell Oil Company, Shamokin, Pa. Brick, 1 story, 16x30 feet, tile roof, cement floors, hot water heat, electric lighting. Contract awarded to East End Lumber Co., Shamokin, Pa.

Road Work, Pennsylvania. Owners, State Highway Department, Capitol Building, Harrisburg.

Delaware County, Route 225, Radnor Township, $134,758.56. Contract awarded to Dunlevy Brothers Co., Coatesville, Pa.

Bridge, reconstruction, over Schuylkill River, South of Norristown, Pa. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Reading Terminal. Contract awarded to Seeds & Durham, 6314 Wissahickon avenue, and American Bridge Co., Widener Building, Philadelphia.

Residences (10), Highland Farms, Abington, Pa. Architects, on 1, 2, 3 and 4, C. A. Ziegler, 1309 Locust street; on 6, 7 and 8, Thomas, Martin & Kirkpatrick, Otis Building; on 9, 10 and 11, Tilden & Register, 1525 Locust street. Owners, Herkness & Stetson, Land Title Building, Philadelphia. Frame and stucco, 2½ stories, 33x30 feet, wing 12x22 feet, stone, 2½ stories, 35x31 feet, frame, 2½ stories, 35x32 feet, and frame and stucco, 2½ stories, 34x32 feet, frame and stucco, 2½ stories, 36x24 feet, 48x36 feet and 34x25 feet, wing 16x14 feet, frame and brick, 2½ stories, 36x34 feet, stone, 2½ stories, 43x23 feet, and stone, 2½ stories, 35x34 feet, shingle and slate roof, oak and pine floors, metal lath, hot water heating, electric lighting, tile and marble work, Bond on 9, 10 and 11. Contract awarded to Fesmire Brothers, Bethayres, Pa.

Church and Sunday School, Ambler, Pa., $41,195. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Church of the Brethren, Rev. Henry X. Garman, 4637 North Fifteenth street, Philadelphia. Stone, 48x70 feet, slate roof, oak and maple floors, steam heat, electric light, tile floors. Contract awarded to D. A. McClelland Co., Drexel Building, Philadelphia.

Bank and Post Office Building, Darby, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, First National Bank, Darby, Pa. Brick, cut stone, limestone, steel, 2 stories, 103x38 feet, and 2 stories, 58x54 feet, slag and asphalt roof, cement and cork floors. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Residence, Cynwyd, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, Frederick C. Newbourg, Real Estate Trust Building, Philadelphia. Brick, 2½ stories, 39x26 feet and 19x11 feet, shingle roof, oak and pine floors, electric light, bond, iron work (heating reserved. Contract awarded to John E. Kearney, 34 South Seventeenth street, Philadelphia.

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New Jersey Construction News

Apartment House, Ventnor avenue, Atlantic City. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, A. A. Stevens, Ventnor avenue, Atlantic City. Brick, 3 stories, 70x76½ feet, slag roof, pine floors, hot water heat, electric light, tile work, metal lath. Plans in progress.

Police Station (alts. and add.), Tennessee avenue. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, E. L. Bader, Atlantic City. Brick, 2 stories, 16x45 feet, slate roof, electric light. Plans in progress.

Pavilion, Swimming Pool and Bath House, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, care of architect. Concrete, frame, 2 stories, 250x100 feet, prepared roof, pine, concrete and canvas roof, electric light. Plans in progress.

Garage, Florida avenue, Atlantic City, N. J. Architect, L. R. Barber, Guarantee Trust Building, Atlantic City. Owner, W. L. Reegal, care of architect. Brick, steel, concrete, 1 story, 85x100 feet, slag roof, concrete floors, electric light. Plans in progress.

Store (alts. and add.), Hermitage street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, J. W. Burd, on premises. Frame, 1 story, 30x50 feet, raising roof, pine floors, general alterations. Plans in progress.

Garage, Montgomery street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Walter Richards, care of architect. Reinforced concrete, 1 story, 200x135x150 feet, slag roof, concrete floors, hot water heat, electric light, tile work. Plans in progress.

Residence (alts. and add.) and Garage, 6119 Monmouth avenue, Ventnor, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, M. H. Goodwin, Adelphia Hotel, Philadelphia. Hollow tile and stucco, 2 stories, 38x53 feet, tile roof, concrete and hardwood floors, hollow tile, hot water heat, electric light, tile and marble work. Architect will be ready for bids in ten days.

School, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, School Board of Pleasantville, Arthur Stiles, secretary, Pleasantville, N. J. Brick, 3 stories, 58x87 feet, slag roof, hardwood floors, steam heat, electric light, roof ventilators, waterproofing. Plans completed. Board will take bids.

Theatre, Pier and Apartments, Wildwood, N. J. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Wildwood Pier & Realty Co., Wildwood, N. J. General alterations and additions, frame and timber. Plans in progress. Owners will superintend construction and will take bids.

Residence, Woodbury Heights, N. J. Architects, Hewitt & Ash, 1827 Arch street, Philadelphia. Owner, A. Buzby, Woodbury Heights, N. J. Frame and stucco, 2½ stories, 41x25 feet, shingle roof, oak and pine floors, metal lath, dampproofing, vapor vacuum heat, electric light, tile and terrazzo. Architect taking bids due April 22nd.

Bungalow, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, A. Generolsky, care of architect. Frame, 1 story, 26x36 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due as soon as possible.

Municipal Poultry Market, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, Board of Commissioners, City Hall, Atlantic City, N. J. Brick and steel, 1 story, 212x103 feet, slate and slag roof, concrete floors (plumbing and electric work separate bids), metal lath, floor hardener, ornamental iron work. Owners taking bids due April 20th.

Apartment, States avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Solomon Shankman, 111 South Maryland avenue, Atlantic City. Brick, 3 stories, 28x90 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal lath. Owner will build.

Apartment, South Victoria street, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, H. G. Harris Co., Guarantee Trust Building. Brick, 3 stories, 50x50 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due as soon as possible.

Cottage, Atlantic City, N. J. Architects, Hoffman-Henon, Inc., Finance Building. Owner, M. K. Boyajian, 1909 Boardwalk, Atlantic City, N. J. Brick and stucco, 2½ stories, 52x30 feet, slate roof, oak and pine floors, tile work. Architect taking bids.

Residence and Garage, Thirty-first and Park avenue, Woodcliffe, Bergen County, N. J. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Fred S. Pindar, Woodcliffe, N. J. Stone, brick, hollow tile, stucco and shingle, 2½ stories, 35x55 feet and 22x28 feet, shingle roof, hardwood floors, cement work, hot water heat, electric light, tile work, brick paving. Owner is ready for bids.

Road Work, Monmouth County, N. J. Architect, private plans. Owners, State Highway Commission of New Jersey, Trenton, N. J. 1,630 tons bituminous concrete. Owners taking bids due April 28th.

Road Work, Toms River, N. J. County engineer, J. M. Abbott, Toms River, N. J. Owners, Board of Chosen Freeholders, County of Ocean, Toms River, N. J. Reinforced concrete, 10,146 square yards. Owners taking bids due April 28th.

New Jersey Contracts Awarded

Residence, Belmont Circle, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mr. C. R. Waller, 493 Chambers street, Trenton. Brick, 3 stories, 26x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work, ornamental iron work. Contract awarded to S. W. Mather & Son, Greenwood and Canal streets, Trenton, N. J.

Residence, Bellevue avenue, Trenton, N. J. Architect, **J. O. Hunt, Hunt** Building, Trenton, N. J. Owner, Joseph Brearley, 403 Market street, Trenton, N. J. Brick, frame, 2½ stories, 24x44 feet, concrete foundations, slate roof, hardwood floors, hot water heat, electric light. Contract awarded to S. W. Mather & Son, Greenwood and Canal streets, Trenton, N. J.

Residence, 11 Westfield avenue, Trenton, N. J., $8,000. Architect, William Slack, St. Regis Theatre Building, Trenton, N. J. Owner, Elizabeth B. Slack, 230 North State street, Trenton. Frame, stucco, 3 stories, 25x54 feet, slag roof, hardwood floors, electric light. Contract awarded to E. H. Margemen, Spring street, Trenton.

Residence, Parkside, Trenton, N. J., $6,300. Architect, private plans. Owner, J. McCann, 674 Rutherford street, Trenton, N. J. Frame, 2½ stories, 21x33 feet, asbestos shingle roof, electric light. Contract awarded to Charles Randle, 43 North Hermitage street, Trenton, N. J.

Armory, Passaic, N. J., $79,900. Architects, Department of Institutions and Agencies, Trenton, N. J. Owners, Quartermaster General's Department, Capitol, Trenton, N. J. Brick, terra cotta, 1 story and basement, 125x70 feet, slag roof, maple floors (heating, plumbing and electric work reserved). Contract awarded to John J. O'Leary, Passaic, N. J.

Bank (alts. and add.), Atlantic and Kentucky avenues, Atlantic City, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, Union National Bank, care of Dr. Cuskaden, on premises. Brick, concrete and hardwood floors, tile, marble and terrazzo work, bank fixtures, fireproof vault, general alterations. Contract awarded to Philip G. Hannum, Atlantic City, N. J.

Post Office (add.), Victoria and Atlantic avenues. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owners, Ventnor Trust Co., on premises. Brick, 1 story, 32x80 feet, slate roof, terrazzo floors, hot water heat, electric light, tile work, skylights. Contract awarded to Norman Gale, Ventnor, N. J.

Apartment and Store (alts. and add.), 1512 Pacific avenue. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, M. M. Parlowe, care of architect. Brick, 3 stories, 25x80 feet, raising one story, slag roof, pine floors, electric light, tile work. Contract awarded to D. C. Johnson, 16 North Bellevue avenue, Atlantic City.

Garage, 211-13 North Massachusetts avenue, Atlantic City. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, Alexander Farrell, care of architect. Brick, 1 story, 50x100 feet, asphalt shingle roof, concrete floors, electric light. Contract awarded to Modern Const. Co., 10 North Maryland avenue, Atlantic City.

Greenhouse, Store, Office and Apartment, Pacific avenue. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, Charles L. Fisher, 1518 Arctic avenue, Atlantic City. Brick, 1 and 3 stories, 25x80 feet, 16x40 feet, slag roof, hot water heat, electric light, tile work, hardwood floors. Contract awarded to Wilson Adams, Atlantic City, N. J.

Power House, Camden, N. J. Architect, private plans. Owners, Campbell Soup Co., Camden, N. J. Brick, steel, 1 story, 55x75 feet, slag roof, cement floors, electric lighting, rolled steel sash, ornamental iron work. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Miscellaneous Construction News

Administration Building, Boaz, Ala. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, John H. Snead Seminary, Boaz, Ala. Central portion of building to be erected, joining the two wings already built. Plans completed. Owners will take bids.

Administration Building, Sevierville, Tenn. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Murphy College, Sevierville, Tenn. Brick. Plans in progress.

Park and Fire Department Building, Baltimore, Md. Architect, Josiah Pennington, Baltimore, Md. Owner, F. Frank Crowther, Insp. of Buildings, City of Baltimore, Md. Brick, stone, granite, limestone and steel, 2 stories, 130x32 feet, tile roof, composition, cement and oak floors, metal lath, roof ventilators, metal ceilings, waterproofing, dampproofing, terra cotta, iron work and stairs, Bond, hollow metal sash, marble and terrazzo, steam heat, electric light. Owners taking bids due April 26th.

HOW TO FINISH FLOORS

BY A. ASHMUM

IN most respects the filling and finishing of a hardwood or softwood floor differs little from that employed in the finishing of the woodwork of a building. There are two items of difference, however, to be noted; namely, that as the floor may be subjected to the use of water the finish varnish must be water resistant, and the filler must be the best only, such as we find in silica filler. In the following article I shall endeavor to give the best method of finishing both hard and softwood floors.

Say we have an oak floor. Fill it full and plenty with best silica wood filler. Let it stand 10 or 15 minutes, then rub off with burlap or tow, across the grain of the wood. Let the job stand about 24 hours, then sandpaper it smooth, using a medium sandpaper not too coarse. Dust off and apply a coat of thinned copal varnish. Sandpaper again, then apply one or two coats of best floor varnish. If the finish is to be with wax, apply two coats of good rubbing varnish, rubbing the first coat with curled hair to remove the gloss, and the second coat with flour pumicestone and water. Clean up with water, let it dry, then polish with prepared wax.

Copal varnish gives the best surface for waxing on. Sometimes the raw wood is waxed, applying two or more coats of wax. But such a job will not endure as long as one done on a varnished surface. Wax is not a durable finish, though one which is easily renewed or renovated, and it does not require a skilled worker to do it. Water is fatal to wax finish, but protection is afforded by coating the wax with a very thin mixture of best copal varnish, six parts; boiled linseed oil, six parts, and turpentine, 10 parts. This preparation will not alter the wax effect.

Another good, dull wax finish is made by melting one pound of wax in a quart of crude petroleum oil, to be applied with a bristle brush. It dries, or rather sets, rapidly.

A hard pine floor looks well when first coated with shellac, followed by a coating of wax, which may be rubbed to a polish. Or you may first apply a coat of raw linseed oil, well rubbed in, then in course of about one hour give it a coat of shellac or you can give it two coats of shellac on the bare wood, the last coat rubbed to a polish.

Bathroom floors and floors of entrance rooms and kitchens should not be waxed. Parguetry floors are usually finished with shellac, as this preserves the natural color of the wood and if any other finish is applied over it there wlll be no altering of the natural wood color, for the shellac will keep out any other coating.

Varnish is the best for floors that have hard service; hospitals and similar public buildings require floors which are easily cleaned up and which will not wear away readily, and a good hard copal floor varnish is the thing to use. If such a floor is properly cared for it will wear for years. Milk is a good dressing for a varnished floor; wipe it up with skim milk occasionally.

When a new hardwood floor has been waxed it should be allowed to dry out over night before being rubbed to a polish, but an old floor may be waxed and polished at one operation. A woolen rag is useful for rubbing the wax, but the weighted brush is to be preferred.

Never use water, benzine or naphtha on a waxed floor. To make the wax thinner add turpentine, and to remove old wax from a floor use turpentine.

Waxed Floors

Wax finish made from beeswax and thinners will give a soft finish but one requiring frequent renewals. To make a harder and better wearing finish add some paraffine to the wax mixture.

Another Hardwood Floor Method

Here is another method for doing a hardwood floor: Mix up some raw oil and a little turpentine with some japan driers. Apply one coat of this, well rubbed in. When it is dry give the floor a coat of paste filler; fill the cracks with paste filler made like putty with pulverized silica. This putty may be colored to match the wood. Sandpaper smooth and give it a coat of shellac which, after becoming dry, should be sandpapered and then rubbed with flour pumicestone and oil. This will make a fine finish.

Maple Floors.

Maple floors should be paste-filled with the very palest filler, and finished with shellac. Do not apply oil direct to the wood, for that would darken and spoil the beauty of the maple. Or give it a coat or two of white shellac followed by a coat or two of pale copal varnish—one or two coats of either according to the character of the job. Each coat of varnish should be rubbed down with sandpaper, though the last or finish coat should not be rubbed, as maple is one of the woods which appear best when finished with a gloss coat.

Softwood Floor

A softwood floor may be stained and varnished; or stained, then shellaced, then varnished; or left with the shellac finish, just as preferred.

Here is a cheap finish yet one which will look first-class when done properly. Give a coat of raw oil to the wood and when dry apply a coat of some cheap paste filler; the cheapest is one that you make from pulverized silica and boiled linseed oil with a little drier added. Let this dry, rub as usual, and then give it a coat of shellac and a coat of wax. Rub lightly to a polish.

New Hardwood Floor

Another way: Take a new hardwood floor, paste-fill it as usual, rub off, let dry, sandpaper, and then give it a coat of raw oil with japan driers in it. This must be well rubbed in. After it has become hard-dry give it a coat of thin shellac.

Fillers

A close-grained wood does not need a paste filler, though some finishers use it; a liquid filler is better in most cases at least. Shellac is the best liquid filler, but of course not the cheapest. Copal varnish thinned out with turpentine makes a good liquid filler, or paste filler made thin with turpentine does well. Shellac made thin with alcohol is best for pale woods like maple and white wood, because any filler containing oil will darken maple or any light-colored wood. One of the close grain woods needing paste filler is Georgia pine; this wood has some soft or open part which liquid filler will not fill. The paste filling makes the soft parts as hard as the rest of the surface. When dry rub down and give it two coats of pale shellac varnish. A floor made from this wood should be rubbed once or twice a month with oil, crude petroleum being a good one.

For the Floor in Use

To do a floor which is in use, something which will dry very quickly is necessary. We have it in shellac. This may be colored as desired, preferably with some earth pigment. Make the shellac very thin and apply two coats. This finish will be safe to walk on in a few hours, if done after night it will be plenty hard by morning. This may also be said of a good floor varnish, though shellac is quicker, for it will do to walk on in one hour if needs be. If you use shellac containing wood alcohol, have plenty of ventilation, but better not use it; denatured alcohol is safer.

Oil Finish for Hard Usage

We have known floors of porches at summer resorts, hotels, etc., where there is much hard wear, which were made wtih rift Southern pine and treated with kerosene oil only. One will be slow to believe that such a finish could have any lasting quality, but the oil seemed to preserve the wood and the floor manitained a nice appearance and did not show floor marks.

It was once the custom first to oil a hard wood floor, then to apply wax. The effect of this treatment was seen in a darkened and muddied wood; in due time it was noted and the method relinquished.

Then the idea was to show only the natural color of a wood. Now we show that, and we also use stains getting other effects.

One finisher tells us that he once did a fine floor by simply sand-papering it until it shone as if polished—it was oak. Then he wax-finished it. This process, however, is too costly in the amount of time it requires and hence has failed to become popular.—*National Builder.*

SPRAY PAINTING

BY RAY W. TRIPP

THE use of spray painting equipment operated by means of compressed air, although a comparatively new process of applying paints and other protective coatings, has been extended to a great many new fields during the last year or two. The most noteworthy are the interior decorating of office buildings, institutions, etc., and the interior as well as exterior work on houses and buildings of all descriptions.

Unusual demands placed on the paint industry during the recent war were really responsible for the further development of the first paint guns or air brushes, as they are sometimes called, which were used on large surfaces such as ships, war materials, factory interiors, and similar work. Since then, of course, the equipments, operating technic and especially the paint guns have been improved from time to time until today the outfits are perfected, as well as foolproof. At the present moment the most exacting finishing problems are solved through the use of spraying equipment.

Painting with compressed air and a paint gun requires no introduction to the building manager, master painter or general contractor as the practice is now widely extended. In this age of mechanically operated tools, all who handle paints, either making, buying or applying, are familiar with the operation of the newest and most radical development in the science of painting—pneumatic spraying equipment, and the immense saving of labor through the use of the paint gun is self-evident.

Observation and experience on many thousands of satisfactory installations have disclosed interesting facts worth noting at this time. The air scheme of painting enables one operator to paint more square feet of surface than six or eight painters using hand brushes, and to secure finished surfaces which are superior to those painted with a brush. Where single coat work is desired a lighter or heavier coating can be obtained than is possible with a hand brush. Inaccessible surfaces that are difficult to reach with a brush are rapidly painted, as the paint gun may be quickly mounted on an all metal sectional extension pole whenever the operator wishes to paint a surface beyond his reach. Ceilings and walls up to about twelve feet in height may be painted without staging and ladder work; the use of scaffolding or staging is reduced at least 50 per cent. on any job. Brush marks, skimped places and laps are entirely eliminated and the covering and wearing qualities of materials are increased. All paints are sprayed to equal advantage at the same consistency as for brush work. Material containers are air tight, which prevents the formation of paint skins, and makes it impossible for dirt to become mixed with the paint.

The next point to be considered is the type of equipment required for work such as the building manager has under his control. The standard equipment recommended and used on this work consists of a portable container of 5 or 10 gallon capacity, with control heads for regulation of air and paint pressures, this head containing reducing valves, air and paint strainers, pet cocks and indicating gauges, a paint gun of suitable design, with two guns operated from one head, if desired, an all metal sectional extension pole, and air and material hose in lengths to meet all requirements. A portable compressor outfit, either gas engine or electric motor driven, with air storage tank, necessary gauges and safety valves wil complete the outfit.

Realizing that there are certain little "touching up jobs" to be done almost daily in every large office building, one of the largest manufacturers of spraying devices has just perfected a smaller outfit for this class of work. This small outfit comprises the following: a paint gun attached to a one-pint aluminum container by means of quick opening adjustable clamps, suitable lengths of air hose and a small portable electrically driven compressor. The compressor is operated by such a small motor that it may be connected to an ordinary lighting socket, making painting problems as simple as cleaning ones are through the use of the vacuum cleaner.

Of course, the larger outfit mentioned above is absolutely necessary wherever large quantities of work are to be done at one time. The ideal installation usually calls for both outfits as the building manager of today has more than one building under his control and painting is a continuous performance from the beginning to the ending of the year.

Catechism for Paint Users

Anticipating questions which will arise in the reader's mind, these questions and answers have been arranged:

What is the loss of paint, using spray method?

None, if handled accordin to operating instructions.

What is the covering capacity of the spray on large buildings?

Minimum, 4,000 to 5,000 sq. ft. per 8 hour day; maximum, on large surfaces, 10,000 sq. ft. per 8 hour day.

Can sash and small trim be painted by this method, and is it advocated?

By using a line board such work may be done, but not to advantage. One man with a gun on the main body of the building will keep two men busy with brushes on the sash and trim.

Can the wood work in an office be coated?

Yes, by using a line board and masking glass often found in partitions.

How much air pressure is necessary to operate gun at maximum capacity?

For average work, 50 to 55 lbs. pressure.

Can the spray be regulated?

Yes, it is possible to secure a roun l conical spray or a board fishtail spray, and thickness of paint film may also be easily regulated.

What is the width of the spray?

It corresponds to an 8 or 10 in. brush when the gun is held 6 ins. from surface to be coated.

How is it possible to handle different paints with the same equipment?

By means of different air and material pressure, as well as adjustment of material control on gun.

How are cold water paints, bronze solutions and heavy lead paints kept in suspension?

An air operating agitating attachment is furnished for this purpose.

Will the spray gun clog?

No, if material properly strained and the gun cleaned after each day's work.

Is it possible to do outside painting on a windy day?

Yes, by holding the gun somewhat closer to the work.

Is the use of pneumatic painting equipment advocated by paint manufacturers?

Yes, resolutions favoring the use of spray painting machines were adopted by the Paint Manufacturers' Association of the United States and approved by the board of directors of the National Varnish Manufacturers' Association.

Another question often asked is the following:

How has this method been received by the master painter, the manager and the journeyman painter?

The master painter has been impressed with the fact that the spray method of painting createst a new field for him, and another excellent reason is that it increases his volume of work, which means greater profits. The manager or owner welcomes the spray method, as it enables him to paint at a reasonable price, making his offices and buildings more desirable, whereas if the work has been figured on brush costs, the price would

be prohibitive. The journeyman painter favors the equipment because his occupation has been made much less laborious than with brush work.

There is no doubt that many million dollars' worth of building failed to receive the customary coats of paint during the recent era of high prices of materials and labor. Much of this neglected work now demands immediate attention if the property is to be saved. New building, which we are sorely in need of, will soon be demanding its share of protective coatings. The field for this invaluable aid to modern building is surely extensive.

Pneumatic painting equipment has proved its value beyond a doubt and has earned a permanent place in up-to-date business practice. It is one of the most important agencies through which the wise and comprehending employer makes his employe's job a pleasant and healthful one, at the same time securing more and better work. Surely, every user of paint or finishing material owes it to himself fully to investigate the possibilities of spray method as applied to his particular work.

—*Building Management.*

The largest labor convention ever held in Pennsylvania will be held at Harrisburg in May of this year. The occasion is the Ninth Annual Convention of Governmental Labor Officials of the United States and Canada to be held May 22nd to 26th.

Clifford B. Connelley, Pennsylvania Commissioner of Labor and Industry, has invited labor commissioners of the United States and Canada, seventy-five in number, to be present in the hope that a convention of commissioners may be held in connection with the conference. This feauture of the conference would have many of the advantages toward unification of administrative policy that were found in the assemblage of governors of the various states in Harrisburg two years ago.

The annual meeting of the Department of Labor and Industry will be held at this time and will include such group sessions as were found at the Industrial Relations Conference last October. Safety engineers will get together to form a state-wide organization to co-operate with the Department; while sessions of the Advisory Council on Women and Children, the Boiler and Pressure Vessel Inspectors Association, and the Industrial Editors Association will contribute to the group idea of such a conference.

The tentative program of the Governmental Labor Officials Convention includes a child welfare session, inspection, safety and sanitation session, employment, mediation and counciliation, workmen's compensation, medical supervision, and rehabilitation sessions, and minimum wage and hours session.

In addition to the state officials who are expected to attend the convention there will be a large delegation of labor officials representing the Federal Government on problems of nation-wide importance. Not less than 1,000 people are expected to be present during the conference.

The officers of the Association of Governmental Labor Officials are: The Honorable Frank E. Wood, Commissioner of Labor and Industrial Statistics of the State of Louisiana, President; Dr. C. B. Connelley, Commissioner of Labor and Industry, Pennsylvania, First Vice President; Miss Ethel M. Johnson, Assistant Commissioner of Labor and Industries of the Commonwealth of Massachusetts, Second Vice President; the Honorable H. M. Stanley, Commissioner of Labor of the State of Georgia, Third Vice President; the Honorable Francisco Varoma, Director of Labor Bureau, Philippine Islands, Fourth Vice President; the Honorable J. N. McLeod, Chief Inspector, Calgary, Alberta, Canada, Fifth Vice President, and Miss Linna E. Bressette, former Director of Women's Work, Court of Industrial Relations of Kansas, Secretary-Treasurer.

"REMEDIES" THAT DESTROY

"DISTORTED" railway rates, as Secretary Hoover calls them, have a much more vital significance to the public than merely to effect a temporary change in the prices of commodities. They produce a distortion of the entire economic structure that is far-reaching in its scope and appallingly wasteful in its effects.

Let us for a moment examine the commercial structure. It may be likened roughly to an open-meshed fabric composed of many strands woven hither and yon, each under a certain stress and each elastic to some degree. Where they cross, these strands are not bound tightly; nevertheless they do tend to concentrate their crossings at certain foci where they adhere more or less.

These strands represent the commercial influences and facilities. Some of them are material, as railway, highway, and water-borne traffic. Some are quite intangible, as credit, railway rates, foreign competition, and the buying habits of the people. At the foci, where the strands cross, are the centers of commerce, production, and population.

So long as commercial conditions are normal, this vast and complicated fabric is in equilibrium, each strand giving a little and taking a little under the slight distortions of changing commercial conditions. A drought in Kansas, a minor change in freight rates in New England, or a bank failure in Texas, may disurb the equilibrium more or less, producing stresses in the strands. These, however, are well within the elastic limit and although the fabric changes shape slightly, it remains intact.

But under violent or far-reaching disturbance this no longer is true. Under such stress some strands are strained almost to breaking, others snap, while still others may be wholly relieved of stress and thrown out of action. New foci are created by the shifting and readjustment of the strands amongst themselves; great investments of capital at existing foci and along certain of the strands may be rendered useless and, for all practical purposes, destroyed. The San Francisco fire was such a disturbance. Let those who doubt ask Seattle and Los Angeles. The opening of the Panama Canal was another, although its effects were, so far as possible, discounted. Hill's steamship lines to the Orient were still another.

But all these were trifling alongside the disturbance that was inflicted upon the fabric by the horizontal increases in railroad rates. As Secretary Hoover pointed out, these were imposed broadcast without regard to existing conditions.. The increased rates since 1914 he tells us have added probably less than 1 per cent. to the price of cotton goods while they have added nearly 100 per cent. to the cost of assembling the material for pig iron.

"All this," continues the Secretary, "is artificially forcing our industries to move toward their raw materials. This does not alone represent the starting of a new factory; it is a movement of the whole mechanism of the community, labor, homes, schools, railways and what not—an enormous duplication of plant and loss of capital. We will ultimately have the rates readjusted and then we will destroy the new industries created under them."

What Secretary Hoover points out with respect to railway rates applies with equal force to every sweeping and undiscriminating change in the commercial fabric. His words should be pondered by the panaceahawkers who infest the land, directing their efforts toward attainment of a single object and forgetting that no fundamental can be changed without affecting the entire structure.

—*Engineering News Record.*

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co., Aramingo and Girard Ave., Phila.
Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co., 2013 Market St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
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Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
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French, Samuel H., & Co. ..4th and York Sts., Phila.
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Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E., Kensington and Lehigh Aves., Phila.

CABINET WORK.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
French, Samuel H., & Co. ..4th and York Sts., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E., Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

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Pearce Fireproof Co.....1345 Arch St., Phila.

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Massiah, Frederick..Juniper and Cypress Sts., Phila.

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Aquabar Waterproofing Products.Perry Bldg., Phila.
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Truscon Laboratories.....1432 S. Penn Square, Phila.

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Keystone Blue Paper Co. .....910 Filbert St., Phila.
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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
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Croyle, Guy .....Merion Station, Pa.
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Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

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Truscon Laboratories.....1432 S. Penn Square, Phila.

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Kane & Co. .....1226 N. 9th St., Phila.

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Pralatt Equipment Co. .....Drexel Bldg., Phila.

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Insurance Co. of North America, 3rd and Walnut Sts., Phila.

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Tinney, Walter H., Co., 63rd and Woodland Ave., Phila.

ROOFING SLATE.
Baird, A. S. .....24 S. 7th St., Phila.
Chapman Slate Co. .....Bethlehem, Pa.
Emack, The John D., Co. .....Otis Bldg., Phila.

ROOFING TILE.
Baird, A. S. .....24 S. 7th St., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

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Artesian Well Drilling Co., Aramingo and Girard Ave., Phila.
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McFarland-Meade Co., 70th and Kingsessing Ave., Phila.

STEEL SASH.
McFarland-Meade Co., 70th and Kingsessing Ave.

STONE.
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Conkling-Armstrong Terra Cotta Co., Denckla Bldg., Phila.
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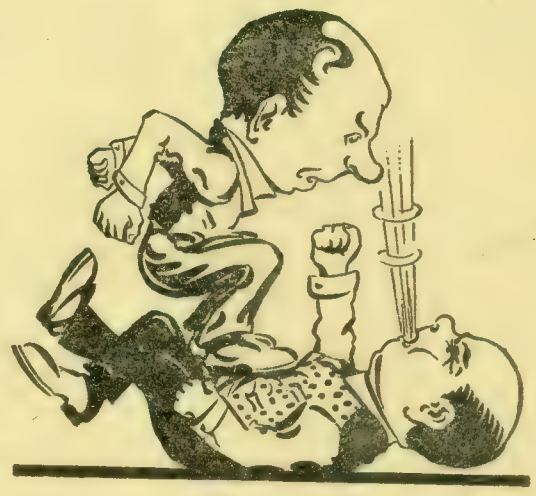
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April 26, 1922

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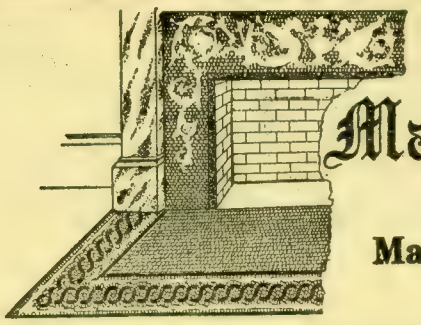


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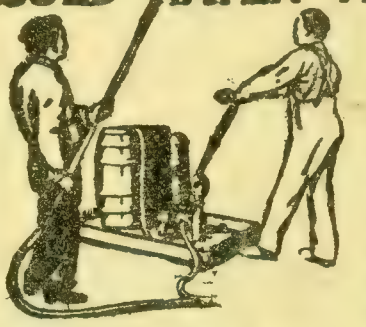
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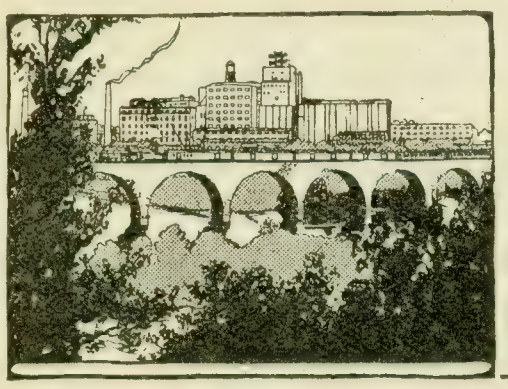
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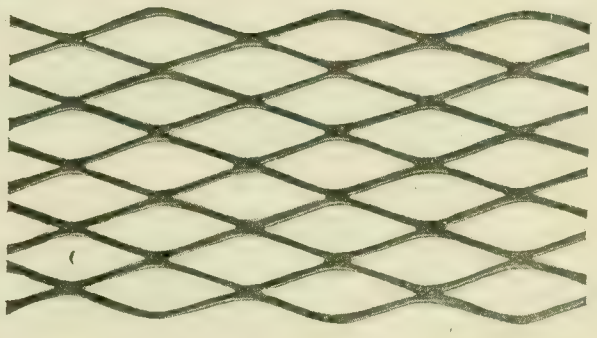
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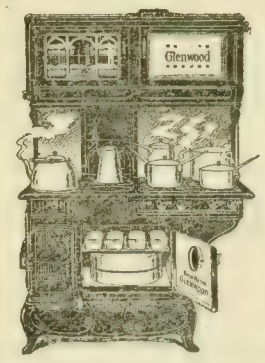
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 17

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April 26, 1922

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As The Editor Sees It

Wide-spread demand for a Building Code in Pennsylvania has necessitated a speeding up of the work on the tentative draft of the Building Code prepared by the Industrial Board, according to Commissioner Clifford B. Connelley of the Department of Labor and Industry.

The draft is rapidly nearing completion, Commissioner Connelly states, the third section of the Code having been recently submitted to the general committee for study.

The three section thus far completed are those on assembly buildings, residence buildings, and business buildings.

Included in assemblies are theatres, motion picture houses, churches, baseball parks, observation towers, school buildings, colleges, libraries, museums, art galleries, etc.

Such dwellings as tenement houses or apartment houses, hotels, pest houses, hospitals, sanitariums and institutions are included in the residence sections.

Business buildings cover factories, grain elevators, cold storage houses, ware houses, breweries, distilleries and slaughter houses, powder mills, oil refineries, office buildings, stores, garages, stables, and restaurants.

Upon completion of section four which deals with engineering requirements, a meeting of the general committee will be called with a view of formulating a method of procedure to be followed in the apportionment of the various sections to sub-committees for survey, constructive criticisms and recommendations.

The Building Code is the most comprehensive and pretentious draft of safety regulations that has been attempted by the Industrial Board and its Building Code Committee. It has required months of work and study of the new conditions confronting the building industry. The spurt in building operations at the present time has made rapid work necessary, and it is hoped the code will be completed before July so that hearings can be held and the code placed in operation.

STUDYING CONSTRUCTION METHODS

IMPORTANT work in studying construction equipment and methods will be undertaken this year by the Associated General Contractors. The success of this work will depend very largely upon the co-operation which contractors give the agents of the association whose task it will be to assemble the information. These men can, from their own experience, furnish only a small number of the facts which will be necessary as a basis for conclusions.

Information must be made available from all sections of the country so that variations due to climate, labor conditions, character of soil and the scores of other differences in conditions can be appraised and averaged. This means that contractors widely must contribute liberally from their records. As individual methods and costs will probably in no case be made public, the information given can be complete and candid without fear that business secrets may be revealed. Indeed, the information must be full and frank or the conclusions will be false.

That the contracting industry should determine preferred practices in equipping construction work and preferred methods of doing work does not admit of argument. Bidding prices will be stabilized, average quality of construction will be improved, but most important of all, the standing of the contractor as an expert in construction will be strengthened in the opinion of engineers and owners.

It may even be possible in some measure to approach standards. Obviously, however, standardization has to be attempted with caution. Nothing must be done that will discourage improvement in equipment and methods. Standardization may wisely be left until later.

—Engineering News Record.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

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Residence, North side Cheltenham avenue, East of Seventh street, $12,000. Architect, private plans. Owner, C. J. Yeager, 2403 East York street, Philadelphia. Stone, 3 stories, 39x31 feet, 26x14 feet, slate roof, oak and yellow pine floors, hot water heat, tile work. Owner will build.

Hotel Apartments, Northeast Corner Forty-sixth and Walnut streets. Architect, James S. C. Fernald, 5533 Wyalusing avenue. Owner, Thomas H. Hargest, 501 North Fifty-second street. Brick, steel, concrete, limestone and terra cotta, 6 stories, 101x125 feet, tile roof, iron partitions, metal lath, passenger elevators, kitchen equipment, steel stairs, copper skylights, rolled steel sash, tile, marble and terrazzo, steam heat, electric light. Owner is taking sub-bids and will build.

Store, Club and Social Rooms, 3306-08 Germantown avenue. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Tioga Business Men's Association, 3533 Germantown avenue. Brick and steel, 2 stories. Revised plans ready for bidders April 25th. Bids due in ten days. Henry P. Schneider, 3713 Old York road; H. P. Werner & Co., 4343 Germantown avenue; John Shuster, 3552 North Fifteenth street; Charles T. Clark, 3635 Germantown avenue, and Jacob Y. Loux, Fifteenth and Hunting Park avenue, are figuring.

Church, Northeast Corner Sixtieth and Master streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Calvin Presbyterian Church, on premises. Stone, 80x100 feet, slate roof, steam heat, electric light. Architect taking bids due May 4th. A. R. Raff Cont. Co., 1635 Thompson street; H. P. Schneider, 3713 Old York road; E. E. Hollenback, Inc., 1804 Brandywine street; J. Richard Jackson & Brother, Perry Building; F. B. Davis & Son, 240 North Sixteenth street; Thomas C. Trafford, 1613 Sansom street, and McNeill Valentine Co., 841 North Broad street, are figuring.

Residence (alts. and add.), 2219 East Cumberland street. Architect, Peter F. Getz, 1634 North Sixth street. Owner, Dr. V. J. Fennerty, on premises. Brick, limestone, basement and oce add. 18x25 feet, tile roof, hardwood floors, heating and lighting extensions, tile work, cement work. Richard Diamond, 2834 East Thompson street, is taking sub-bids.

Ice Storage (alts. and add.), Southwest Corner Fairhill and Clearfield streets, Philadelphia, $15,000. Architect, Henry Frido, Chicago, Ill. Owners, Philadelphia Brewing Co., Sixth and Clearfield streets. Owners will build.

Stores (4), Apartments (8) and Shop, Chadwick street and Passyunk avenue. Architect, Peter F. Getz, 1634 North Sixth street. Owner, Otto Zachar, 1630 West Passyunk avenue. Brick, 3 stories, 16x59 feet each, and 2 stories, 32x84 feet, slag roof, hardwood and pine floors, reinforced concrete, metal ceilings, waterproofing, bond, plumbing, tile and marble, metal lath, hot water and steam heat, electric lighting. Architect taking bids due April 27th. Richard Diamond, 2834 East Thompson street; John T. Welsh, Bulletin Building; Joseph Levin, 1923 South Fourth street; William J. Uhler Sons, 1909 McKean street; John McShain, 1610 North street, and J. C. Mahoney, Drexel Hill, Pa., are figuring.

Office Building, Northwest Corner Twenty-first and Market streets, Philadelphia. Architect, not yet selected. Owner, John W. Snyder, care of C. Harry Johnson, Crozer Building. Brick, concrete, steel, stone and terra cotta, 15 stories, 188x102 feet. Work contemplated.

Y. M. H. A. Building, Southwest Corner Broad and Pine streets. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Y. M. H. A., 1616 Master street, Philadelphia. Stone, brick, terra cotta, steel and concrete, 120x150 feet. Plans in progress.

Store (alts. and add.), Ridge and Girard avenues, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street. Owner, Dr. M. Voorman, care of architect. General alterations. Plans in progress. Too early for details.

Factory (add.), Chelten avenue and Baynton street. Architect, Edward G. MacGannon, Perry Building, Philadelphia. Owners, Dearnley Brothers Wordsted Spinning Co., Inc., premises. Concrete, brick and steel, 3 stories, 74x98 feet, slag roof, concrete and maple floors, rolled steel sash, kalamein doors, bond, floor hardener. Revised plans in progress. Will be ready for new bids in ten days.

Residence, Lincoln Drive and Arbutus street, Philadelphia. Architect, not yet selected. Owner, Morris Tamaris, 1018 Arch street. Work contemplated.

Store and Offices (alts. and add.), Orthodox and Frankford avenue. Architect, Edward Schoeppe, 315 South Fifteenth street. Owner, W. Thomas, on premises. Brick, 2 and 3 stories, 26x80 feet, slag roof, maple and composition floors, hot water heat, electric light, flush bulks. Plans in progress.

Store and Residence, Princeton and Torresdale avenues. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, Herman Shanbacher, Orthodox and Mulberry streets. Brick and steel, 2½ stories, 20x58 feet, slate and slag roof, composition and hardwood floors, hot water heat, electric lighting. Owner will take bids.

Residence (alts. and add.) to Apartments, Fortieth and Poplar streets. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, name withheld. General alterations and additions. Architect will be ready for bids in ten days.

Store and Apartments (alts.), 2804 North Broad street. Architect, I. W. Levin, Victory Building, Philadelphia. O wner, H. Ricklin, 1838 Wallace street, Philadelphia. New marble front, hardwood floors, cement work, tile, structural steel, copper bulks, glazing, electric work, changes to heating. Owner is ready for bids.

Stores and Apartments (2) and Residences (2), Northeast Corner Fifty-seventh and Woodland avenue, Philadelphia. Architect, I. W. Levin, Victory Building. Owner, S. Rader, 721 South Fifty-first street, Philadelphia. Brick, 2 stories, 18x60 feet and 18x30 feet, slate and slag roof, hardwood floors, hot water heat, electric light, tile and marble work, leaded glass. Owner taking sub-bids.

Residences (23) and Store and Residence, Sixty-third and Cedar avenue. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, Joseph Bobb, 5950 Locust street, Philadelphia. Brick, stone and stucco, 16x56½ feet, slag and tile roof, hardwood floors, hot water heat, electric light, garages in basements. Plans in progress. Owner will be ready for sub-bids in one week.

Theatre and Office Building, Southeast Corner Eleventh and Market streets. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Company of America, 1214 Market street. Brick, terra cotta, cut stone and steel, 4 stories, mezzanine and basement, 180x156 feet, slag roof, pine and cement floors, metal lath, safety treads, roof ventilators, metal weather strips, dampproofing, bronze work, ornamental iron work and stairs, floor hardener, bond, hollow metal and kalamein doors, hollow metal sash and skylights, tile, marble and terrazzo, steam heat, electric work, elevators. Architects taking sub-bids and will build.

Stores and Residences (alts.), 1004-06 Diamond street. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, William H. Mitchell, care of architect. Brick work, stone, cement work, hot air heat, tile floors, plate glass, metal bulks, electric work, plumbing. Will be ready for bids in a few days.

Stores (3) and Apartments (alts.), Southeast Corner Fifty-ninth and Girard avenue. Architect, William F. Wooters, 816 West Allegheny avenue. Owner, Charles E. Hannegan, 1447 West Cayuga street. Brick, 3 story addition, 16½x10½ feet, concrete roof, metal lath, tile and marble, flush bulks (heating, lighting and plumbing reserved). Owner is ready for bids.

Residence, Frankford, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Robert Lawson, 4665 Paul street, Philadelphia. Stone or brick and stucco, 2½ stories, slate roof, hardwood floors, tile work, vapor heating, electric lighting. Architects ready for bids.



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Residence, Seventh avenue, Kenilworth and Greenlan avenues, Oak Lane, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Ralph Meyerhoff, care of architect. Stone, 2½ stories, slate roof, vapor heating, electric lighting, tile work, hardwood floors. Architects ready for bids.

Bank Building, Southeast Corner Sixtieth and Master streets, $75,000. Architect, Stanford B. Lewis, 130 South Fifteenth street. Owners, Overbrook Bank, on premises. Granite, brick and limestone, 1 story and mezzanine, 44x70 feet, concrete slab and slag roof, hardwood floors, steam heat, electric lighting, tile, marble, terrazzo and mosaic work, window guards, rolled steel sash. Architect has received sub-bids and will build.

Apartments, Forty-sixth street, between Spruce and Pine streets. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Samuel Cohen, 411 South Sixty-second street. Brick, 4 stories, 37x80 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner is taking sub-bids.

Church Building and Repairs to Old Building (fire), Rockland, Mervine and Eleventh streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Holy Trinity Church, on premises. Stone, 2 stories, 90x65 feet, slate roof, maple and pine floors, steam heat, electric light, metal lath, caen stone, ornamental iron work and general fire repairs to old building. D. A. McClelland, Drexel Building, and architects taking sub-bids.

Factory, Fifty-fourth and Gray's avenue, Philadelphia. Architects, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, Shingle Leather Co., 315 Vine street, Philadelphia. Brick and steel, 1 story, 120x195 feet, slag roof, concrete floors, rolled steel sash, iron work (heating and lighting reserved). Architects taking bids due April 27th at 9 A. M.

Warehouse, Twenty-fourth and Walnut streets, Philadelphia. Engineer, L. B. Kimball, Baltimore, Md. Owners, Baltimore and Ohio R. R., Baltimore, Md. Reinforced concrete and steel, 8 stories and basement, 182x102 feet, composition roof, concrete floors, hollow tile, monolithic finish, waterproofing, iron work, hollow metal skylights, rolled steel sash, metal lath. Owners taking bids due May 1st.

Office and Loft Building, 1312-16 Arch street. Architect, Leroy Rothschild, 1225 Sansom street. Owner, J. C. Kahn, Morris Building, Philadelphia. Brick, concrete, steel and cut stone, 10 stories, 66x134 feet, slag roof, concrete and maple floors, metal lath, tile and marble, hollow metal sash and skylights, kalamein and hollow metal doors, iron work, dampproofing, terra cotta. Architect taking bids due May 1st.

Schools (alts.), various locations, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Gas ranges, general repairs, heating, cement paving, electric work, painting, flag poles, cabinet work, wardrobe lockers, metal weather strips, etc. Owners taking bids due May 4th at noon.

Residence (alts.), 2007 Walnut street, Philadelphia. Architect, Edward F. Hoffman, Jr., 315 South Fifteenth street, Philadelphia. Owner, Isadore Stern, Lincoln Building. Brick, carpentry, mill work, plastering, painting, oak and woodoleum floors, sheet metal work, iron work, bond, tile (heating, electric work and plumbing reserved). Architect taking bids due May 1st.

Warehouse (alts. and add.), 1809-11-13 Market street, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Architects, Fidelity Storage & Warehouse Co., premises. Concrete, steel, brick and cut stone, 12 stories and basement, 180x17 feet, asbestos asphalt roof, cement floors, hollow tile, metal lath, cork insulation, dampproofing, terra cotta, iron work, floor hardener, bond, hollow metal, rolled steel and fire doors, rolled steel and hollow metal sash (electric work and elevators reserved). Architect taking bids due April 29th at 10 A. M.

Building, 1819-21 Callowhill street, Philadelphia. Architect, W. Macey Stanton, 1310 Arch street, Philadelphia. Owner, William J. Roseborough, care of architect. Brick, cut stone and steel, 2 stories, 100x32 feet, slag roof, pine floors, rolled steel sash, hollow metal skylights, iron work (heating, plastering, glazing and electric work reserved). Architect taking bids due April 28th.

Building (alts.), 1306 Chestnut street, Philadelphia. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owner, George Miller, on premises. Brick, cut stone, carpentry, mill work, plastering, glazing, hardware, electric work, tile and terrazzo, bond, iron work. Architect taking bids due May 1st.

Residence, Queen Lane Manor, Pa. Architect, Thomas B. Lippincott, 11 South Sixteenth street. Owner, Mrs. Ensley, care of architect. Brick and hollow tile, 2½ stories. Architect taking bids due as soon as possible.

Swimming Pool and Bath House, Cotton and Station streets. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Brick and steel, 1 story, 95x98 feet, slate and slag roof, cement floors, waterproofing and dampproofing, terra cotta, iron work, steel doors, hollow metal skylights. Owners taking bids due April 28th.

Supplies, City of Philadelphia, Pa. Owners, City of Philadelphia, Office of Purchasing Agent, (Acting) Horace C. MacFadyen, 312 City Hall. Jersey gravel, crushed stone, grit, etc. Owners taking bids due April 28th at noon.

Post Office Building, Germantown avenue and Coulter street. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owner, John S. Walker, on premises. Brick, stone and steel, 1 story, 100x100 feet, slag roof, electric lighting, steam heating. Plans in progress. R. M. Peterson, 5114 Germantown avenue, will build.

Residences (20), (19) Fifty-fourth and Coleman, (1) Fiftysixth and Coleman streets, Philadelphia, $246,000. Architect, private plans. Owner, Daniel Crawford, 3904 Chestnut street, Philadelphia. Stone, 3 stories, 21x50 feet and 21x36 feet, 21x14 feet, slag roof, oak and yellow pine floors, electric light, hot water heat, tile work. Owner will build.

Residences (2), 7011-13 Cottage, and **Residences (8)**, 7018-20-26-28-34-36-38-40 Cottage street, $45,000. Architect, private plans. Owner, Walter G. Costello, 7002 Hegerman street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 42½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Nurses' Home and Rebuilding of Greenhouse, Thirty-fourth and Pine streets. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, C. L. Furbush, Director, City Hall, 584, Philadelphia. Brick, cut stone, terra cotta and steel, 5 stories, 39x46 feet, slag roof, granolithic and pine floors, hollow tile, metal lath, roof ventilators, metal weather strips, waterproofing, iron work, iron stairs, marble and terrazzo. Lowest bids submitted, Items 1, 2 and 3, by: Mitchell Houseworth, Inc., 2512 North Twenty-seventh street—1, $56,987; 2, $1,347; 3, $2,393. Kober Const. Co., 34 South Seven-

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teenth street—1, $56,977; 2, $2,700; 3, $2,400. Electric, Electric Const. Co., Wilmington, Del. —1, $2,595; 2, $192. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia—1, $8,136; 2, $619. Heating, Bowers Brothers, 1629 Ludlow street, Philadelphia —1, $6,168; 2, $400.

Recreation Centre, Chelten avenue, Anderson, Woodlawn and Ardleigh streets, Germantown. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Welfare, Bureau of Recreation, R. H. Warburton, Director, 595 City Hall, Philadelphia. Grading, fill, sodding, painting, terracing, coping, concrete work, curbing, sidewalks, iron fence and gates. Lowest bidders: Mundy Paving Co., 228 South Alder street, $21,066; Carter Paving Co., 641 North Eighteenth street, $21,827.

Girard Piers, No. 3 and No. 5, North Wharves, Delaware River, Philadelphia. Owners, Department of Wharves, Docks and Ferries, Bourse, Philadelphia. Lowest bids submitted by: Triest Cont. Co., New York City—No. 1-A, $1,812,218; No. 1-B, $1,845,548. Fred Snare Corp., 1524 Chestnut street, Philadelphia—No. 1-A, $1,881,000; No. 1-B, 1,913,000.

Residences (10), Fisher's avenue and Sydenham street, $45,500. Architect, private plans. Owner, Fred G. Storck, 3519 North Thirteenth street, Philadelphia. Brick, 2 stories, 15x31 feet, 12x9 feet and 16x40 feet, slag roof, oak and yellow pine floors, hot water heat, tile work, electric light. Owner will build.

Residences and Garages (6), Mascher street, North of Louden **(Garages**, Howard, North of Louden), $42,000. Architect, private plans. Owner, John Schmunk, 612 West Cambria street, Philadelphia. Brick, 2 stories, 15x32 feet, 12x14 feet, and 1 story, 15x22 feet, slag roof, cement, oak and pine floors, hot water heat, electric lighting. Owner will build.

Garage, West side Nineteenth street, North of Butler street, $34,000. Architect, private plans. Owners, Philadelphia Realty Co., 111 West Mt. Airy avenue, Philadelphia. Brick, 1 story, 100x155 feet, slag roof, cement floors, steam heat, electric light. Owner will build.

Store and Office (alts. and repairs), 133 South Eleventh street. Architect, private plans. Owner, J. Gorchov, 4116 Girard avenue, Philadelphia. Carpentry, mill work, painting, glazing, bulk windows, plate glass, plastering. Owner will build.

Residences (10), North side Eleanor street, West of B street, $4,650 each. Architect, private plans. Owner, Joseph A. Blair, 406 Chew street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Garage, East side Terrace street, North of Dawson street, $4,500. Architect, private plans. Owner, Martin Kelley, 2710 West Dauphin street, Philadelphia. Brick, 1 story, 18x188 feet, slag roof, cement floors, electric lighting. Owner will build.

Garage (add. and alts.), 143-145 Fairmount avenue, $5,000. Architect, I. W. Levin, 720 New Market street, Philadelphia. Owners, Brown & Sons, on premises. Brick, 1 story, irregular size, slag roof, cement floors, hot water heat, electric light. Owner will build.

Store and Office, 1528 Vine street, Philadelphia, $5,000. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owners, F. B. Davis & Son, 240 North Sixteenth street, Philadelphia. Brick, 2 stories, 18x80 feet, slag roof, maple floors, hot water heat, electric light. Owner will build.

Residences and Garages (28), Florence avenue, Fifty-fifth to Fifty-sixth street, $4,600 each. Architect, private plans. Owner, R. H. Pugh, 5713 Market street, Philadelphia. Brick, 2 stories, 16x30 feet, 12½x10 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Building (alts.), Southeast Corner Thirty-second and Dauphin streets, $4,000. Architect, private plans. Owners, Philadelphia Rapid Transit Co., 820 Dauphin street. General interior alterations. Owner will build.

Store (add. and alts.), 3610-12 Germantown avenue, $12,000. Architect, private plans. Owners, F. W. Woolworth Co., Wilkes-Barre, Pa. Brick, 1 story, 53x34 feet, slag roof, maple floors, hot water heating, electric lighting. Owner will build.

Service Station, Northeast Corner Broad and McFerran streets, $10,000. Architect, J. M. Milliken, Chief Engineer of Construction, Pittsburgh. Owners, Gulf Refining Co., 516 Widener Building, Philadelphia. Brick, 1 story, 20x30 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Residences and Garages (26), Eighth and Louden streets, $133,000. Architect, private plans. Owner, John Tucker, 312 Christian street, Philadelphia. Brick, 2 stories, 16x49 feet and 15x30 feet, 12x10 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (2), 724-26 South Fourth street, Philadelphia, $7,000. Architect, private plans. Owner, Morris Rutberg, 708 South Fourth street, Philadelphia. Brick, 3 stories, 19x18x33 feet, 12x16 feet slag roof, oak and pine floors, hot water heat. Owner will build.

Residences (6) and **Garage (1)**, Stenton avenue, North of Mechanic street, Philadelphia, $25,800. Architect, private plans. Owner, J. G. Piscitelli, 533 Heed Building, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Owner will build.

Residences (56), (52) East and West side Franklin street, North of Wyoming avenue, $3,400 each; (4) Franklin and Louden streets, $3,800 each. Architect, private plans. Owner, Matthew W. Dougherty, 1818 South Twenty-third street, Philadelphia. Brick, 2 stories, 14½x25 feet 8 inches, 12x11 feet and 16x37 feet, slag roof, oak and pine floors, hot water heating, electric lighting. Owner will build.

Residences (17), 1241-57 Marlyn road and 1242-54 Marlyn road, and (2) Marlyn road and Malvern street, $122,000. Architect, private plans. Owners, Marshall Const. Co., 1115 Marlyn road, Philadelphia. Brick, 2 stories, 16x42½ feet, 16x30 feet, 12x12 feet, 19x28 feet, 15x14½ feet and 15 feet 9 inches x 30 feet, 12x12 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (24), Fifty-sixth and Gaynor road, $6,500 each. Architect, private plans. Owner, Clarence E. Fox, Fortieth and Lancaster avenue, Philadelphia. Brick, 2 stories, 18x46 feet, 18x34 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

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Residences (2), 5174-76 Jefferson street, Philadelphia, $6,000. Architect, private plans. Owner, N. Litman, 1597 North Fifty-second street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x10 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Garage, 531 Dickinson street, Philadelphia, $3,500. Architect, private plans. Owner, Ezra Vorris, 539 Sigel street, Philadelphia. Brick, 1 story, 17x78 feet 4 inches, slag roof, cement floors, hot water heat, electric light. Owner will build.

Garages (2), North side Luzerne street, West of Seventeenth street, $3,700. Architect, private plans. Owner, W. J. Graham, 1714 Hunting Park avenue, Philadelphia. Brick, 1 story, 18x70 feet and 15x17½ feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residence, South side Harmon road, West of Ridge avenue, $8,500. Architect, private plans. Owner, J. F. Preston, 4440 Deiter street, Philadelphia. Frame and stucco, 2 stories, 48x24 feet, shingle roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (2), South side Cottman street, East of Claridge. Architect, private plans. Owner, Frank Szambin, 7255 Claridge street, Philadelphia. Frame, 2 stories, 16x34 feet, shsingle roof, hot water heat, electric light, yellow pine and oak floors. Owner will build.

Residence, Shelmire street, West of Palmetto street, $3,500. Architect, private plans. Owners, Davis & Kochensperger, 7434 Palmetto street, Philadelphia. Frame, 1 story, 25x41 feet, shingle roof, yellow pine floors, electric lighting. Owner will build.

Garage, 423 East Wildey street, Philadelphia, $2,500. Owner, J. Hess, 425 Wildey street, Philadelphia. Brick, 1 story, 20x70 feet, slag roof, cement floors, electric lighting. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Warehouse and Service Station, Sixteenth and Indiana avenue. Plant engineer, W. D. Price, Chicago, Ill. Owners, International Harvester Co. of America, 216 North Twenty-third street, Philadelphia. Brick, concrete and steel, 5 stories and basement, 130x100 feet, and 1 story, 100x64x140 feet, slag and gypsum tile roof, concrete floors, hollow tile, metal lath, safety treads, roof ventilators, waterproofing and dampproofing, hollow metal sash and doors, rolled steel sash, plumbing, electric work (heating, rolled steel sash, rolling steel doors and elevators reserved). Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Residences (2), Kohl street, North of Bustleton avenue, $3,000 each. Architect, private plans. Owner, M. Shay, Bustleton, Pa. Frame, 2 and 1 stories, 14x27 feet, 14x10 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to A. W. J. Williams, 3011 Linden avenue.

Building (add.), 261 South Eleventh street, Philadelphia, $4,000. Architect, private plans. Owner, Anna Cannon, 147 Roosevelt Boulevard, Philadelphia. Brick, 3 stories, 15x24 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to George Gross, 1633 Ranstead street.

Residences (4), East side Cottage street, South of Devereaux street, $4,000 each. Architect, private plans. Owner, Mary Williams, 3011 Linden avenue, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 38 feet, slag roof, oak and pine floors. Contract awarded to A. W. J. Williams, 3011 Linden avenue.

Telephone Exchange (alts.), 5160 Lancaster avenue, $2,000. Architect, private plans. Owners, Bell Telephone Co., 1230 Arch street, Philadelphia. Carpentry, mill work, metal lath, plastering. Contract awarded to Albert Zellfelder, 151 South Broad street.

Apartment (add. and alt.), 3401 Wallace street, $7,000. Architect, private plans. Owners, Lifter & Lucker, 5136 Parkside avenue, Philadelphia. Brick, 1 story, 17½x156 feet, 17½x11 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to A. P. Lucker, 5136 Parkside avenue.

Residences (2), 2363-65 Duncan street, $3,375 each. Owner, Paul Bahlay, 4515 Stiles street, Philadelphia. Brick, slag roof, oak and pine floors, hot water heat. Contract awarded to Frank Sikaiski, 4478 Edgemont avenue.

Factory Building, Florence avenue, West of Fifty-first street, $13,000. Architect, private plans. Owners, Eyre & Co., on premises. Brick, 2 stories, 54x74 feet, slag roof, pine and concrete floors, electric light, vapor heat, rolled steel sash, hollow metal skylights. Contract awarded to Turnbull & Connell, 20 South Eighteenth street.

Residences (alts. and add.), Wyndmoor, Pa. Architect, E. A. Wightman, Heed Building, Philadelphia. Owner, A. J. Brannen, Wyndmoor, Pa. Stone and brick, 2½ stories, general alterations, roof repairs, hot water heat, electric light, tile work. Contract awarded to Specht & Sperry, Heed Building.

Manufactory, West of Twentieth, between Naudain and Rodman streets. Architects, Ballinger & Co., Twelfth and Chestnut streets, $41,500. Owners, Roosevelt Worsted Co., on premises. Brick, concrete and steel, 1 story and basement, 98x60 feet, slag roof, pine and concrete floors, hollow tile, safety tread, dampproofing, terra cotta, iron work, floor

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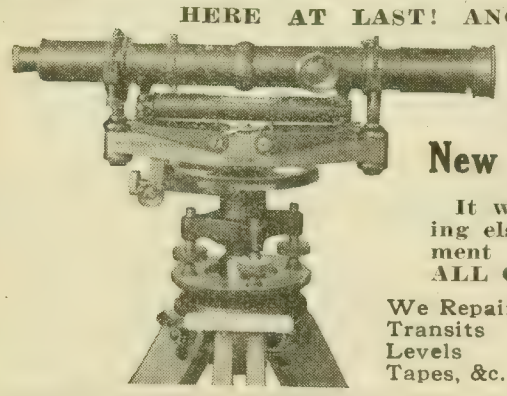
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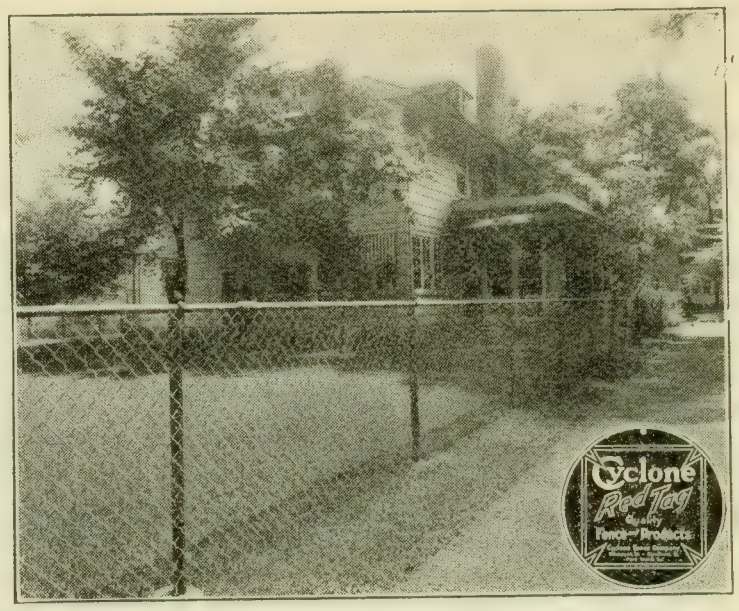
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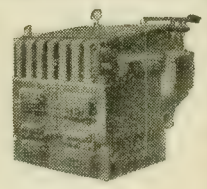
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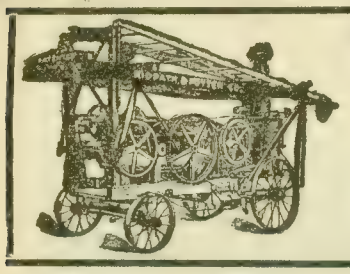
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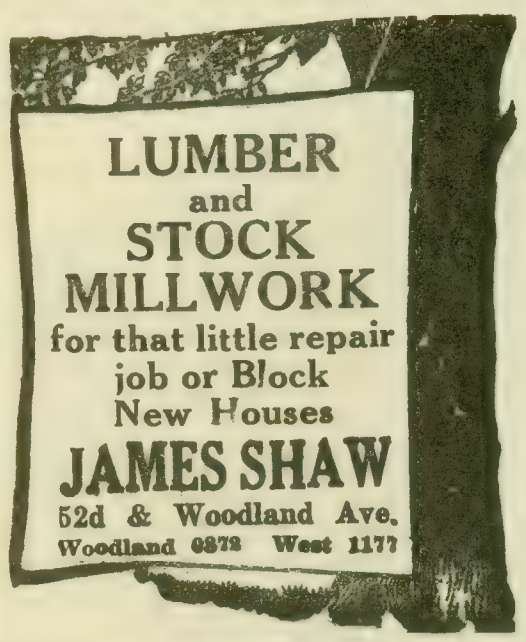
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hardener, bond, kalamein doors, rolled steel sash, tile, marble and terrazzo work (lighting, heating and ventilating reserved). Contract awarded to Potts Brothers & Cooperson, 129 North Eleventh street.

School and Auditorium, Forty-fifth and Wyalusing avenue. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Our Mother of Sorrows Roman Catholic Church, care of Rev. Nevin Fisher, Forty-eighth and Lancaster avenue. Brick, steel and cut stone, 3 stories, 199x111 feet, slag roof, maple and cement floors, hollow tile, metal lath, safety treads, roof ventilators, waterprooofing, iron work, floor hardener, bond, metal doors, rolled steel skylights (heating, lighting, plumbing, tile and marble work reserved). Contract awarded to Pierce Henon Co., Juniper and Pine streets.

Building, Market street, East of Sixty-ninth street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Edward M. Cook and E. M. Cook, Jr., Upper Darby Post Office. Brick, 2 stories, 70x50 feet, slag roof, pine floors, hollow tile, metal lath, dampproofing, iron work, steam heat, electric light, tile and marble work. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Residences (2), 1651-53 Conklin street, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street. Owner, Isaac Tweedale, 1663 Conklin street. Brick, 2 stories, 16x42 feet, slag roof, pine floors, hot water heat, electric lighting. Contract awarded to James W. Orr, Bustleton Pike, Philadelphia.

Hospital (add.), Northeast Corner Twenty-third and Walnut streets, $40,000. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, Dr. William Clark, on premises. Brick and cut stone, 4 stories, 25x40 feet, slag roof, composition and cork floors, metal lath, dampproofing, terra cotta, iron work, bond, steam heat, electric light. Contract awarded to John P. Hallahan, 612 Chestnut street.

Ice House, Tackawanna and Church streets, Philadelphia, $15,000. Architect, private plans. Owners, Kensington Hygeia Ice Co., on premises. Brick and steel, 1 story, 60x60 feet, slag roof, cement and brick pavement floors, hollow metal skylights, refrigerator doors. Contract awarded to George Kessler Cont. Co., Drexel Building.

Residence, Lincoln Drive and Hortter street, Philadelphia. Architect, private plans. Owner, D. W. Dietrich, Reading, Pa. Stone, 2½ stories, 40x50 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, iron work. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia.

Building (alts. and add.), Fourth and Green streets, Philadelphia, $12,000. Architect, William H. Wooters, 816 West Allegheny avenue. Owner, Edward Jacobi, on premises. Brick, stone and steel, slag roof, pine floors, electric light, rolled steel sash, fire escape, metal ceiling, pine floors, plastering, painting, glazing, iron work. Contract awarded to Albert Dunlap, 7223 Oak avenue, Oak Lane, Philadelphia.

Warehouse and Office, 235 Arch street, Philadelphia. Architect, Valentine B. Lee, 1003 Spruce street. Owners, Berger Brothers, on premises. Brick, steel and concrete, 5 stories, 30x50 feet, slag roof, maple floors, plumbing, metal lath and ceilings, fire doors, rolled steel sash, electric work (heat and elevators reserved). Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Building (alts. and add.), 1909 Walnut street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Samuel Sachs, care of architect. Carpentry, mill work, plate glass, painting, brick, 1 story add., 12x48 feet, slag roof, pine floors, bronze work, marble work, hollow metal sash, metal bulks. Contract awarded to M. J. Benamy, 5758 North Fifth street.

Store (alts.), Sixth and Market streets, Philadelphia. Architect, Richard R. Neely, 2136 Pine street, Philadelphia. Owners, Snyder Brothers, on premises. New bulks, 37 feet and 42 feet long, marble, tile work, hardwood floors, copper bars and cornice, electric work. Contract awarded to Pierce Henon Co., Juniper and Pine streets.

Garages (13), rear of 3522-26 Germantown avenue. Architect, I. W. Levin, Victory Building. Owner, I. Cooper, on premises. Brick, 1 story, (8) 8x18 feet, and (4) 8x22 feet, (1) 24x30 feet, slag roof, cement floors, steam heat, electric lighting. Contract awarded to Louis Swerdloff, 228 South Fifty-ninth street.

Residence, Queen Lane Manor, Philadelphia. Architect, private plans. Owner, Paul J. Quinn, 600 East Chelten avenue, Philadelphia. Stone, 2½ stories, 30x40 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Contract awarded to Charles Johnson, 2032 East Chelten avenue.

Factory (add.), Norris street, West of Howard street, $18,000. Architect, private plans. Owner, James A. Kinney, on premises. Brick and steel, 2 story add., 51x78 feet, and third story add., 47x78 feet, slag roof, maple floors, steel sash, skylights. Contract awarded to Farrell-Roth Const. Co., 122 Diamond.

Residence, 6447 Overbrook avenue, Philadelphia, $16,000. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, Morris Schwartz, Reading, Pa. Stone, 2 stories, 40 feet 10 inches x 17 feet 8 inches and 37x21 feet, tile roof, oak and pine floors, metal lath, tile and marble work. Contract awarded to William J. Ryder, 1718 Sansom street.

Factory, Northwest Corner Unity and Oakland streets, $11,500. Architect, private plans. Owners, S. S. White & Co., 211 South Twelfth street, Philadelphia. Brick, steel, 1 story, 80x44 feet 8 inches, slag roof, maple floors, steel sash, skylights. Contract awarded to William R. Dougherty, 1610 Sansom street.

Residences (2), 6433-35 Sherwood road, $14,500 each. Architect, Charles M. Wells, Rutledge, Pa. Owner, William J. Crowley, care of architect. Stone, 3 stories, 26 feet 4 inches x 51 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Residence, Southeast Corner Harrison and Large streets, $11,000. Architect ,private plans. Owner, John Kesson, Van Kirk and Tulip streets, Philadelphia. Brick, 2 stories, 20x65 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, metal lath. Contract awarded to J. D. Fotheringham, 1000 Arrott street.

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Residence, Southeast Corner D and Emerson streets, Philadelphia, $7,200. Architect, private plans. Owner, William Farren, Fox Chase, Pa. Frame, 2 stories, 28x30 feet, shingle roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to Harold Stout, Cheltenham, Pa.

Residences (2), 474 and 476 Lyceum avenue, $7,000. Architect, private plans. Owner, Harvey F. Brown, 105 Levering street, Philadelphia. Brick, 2 stories, 15x41x19 feet, slate and slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Brown Const. Co., 105 Levering street.

Residences (3), West side Sixty-fifth street, North of Girard avenue, $6,200 each. Architect, private plans. Owner, Joseph Girard, 644 Earp street, Philadelphia. Brick, 2 stories, 16x53 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to A. E. Perna, 6413 Vine street, Philadelphia.

Storage Building, 1711 Foulkrod street, $8,000. Architect, private plans. Owner, E. A. Baldwin, 4819 Duffield street, Philadelphia. Brick, 1 and 2 stories, 40x100 feet, slag roof, cement floors, hot water heating, electric lighting. Contract awarded to George Rimer, 4842 Hawthorne street.

Garage, East side Rising Sun avenue, North of Robbins street, $5,750. Architect, private plans. Owner, Joseph H. Walker, on premises. Brick, 1 story, 36x116 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to C. C. Campbell, 6419 Bingham street, Philadelphia.

Building (fire repairs), Southeast Corner Oxford and Hutchinson streets, $7,000. Architect, private plans. Owners, Frank Schobel Co., Tenth and Oxford streets, Philadelphia. Carpentry, mill work, slag roof, plastering. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Workshop, 5543 Chestnut street, Philadelphia, $6,000. Architect, private plans. Owner, Joseph C. Birn, 5504 Market street, Philadelphia. Brick, 1 story, 21x80 feet, slag roof, cement floors, hot water heat, electric light, waterproofing, metal lath. Contract awarded to J. D. Fisher, 5426 Thompson street.

Residence, North side Borbick street, East of Fillmore, $5,300. Architect, private plans. Owner, A. Neff, Fox Chase, Philadelphia. Frame, 2 stories, 26x43 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to Joseph Ashley, Fox Chase, Philadelphia.

Residence, West side Rising Sun avenue, North of Unruh street, $5,000. Architect, private plans. Owner, Joseph Fluck, 2600 East Allegheny avenue, Philadelphia. Brick, 2 stories, 16x49 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to William G. Isles, 806 Levick street, Philadelphia.

Residence and Store (alts.), 600 South Fifty-second street, $4,500. Architect, private plans. Owner, Benjamin Landis, 1601 Chestnut street, Philadelphia. General interior alterations. Contract awarded to Charles Litman & Bro., 2438 South Fourth street.

Residence, 1136 South street, Philadelphia, $4,500. Architect, private plans. Owner, B. Abramovitz, 717 Snyder avenue, Philadelphia. Brick, 2 stories, 15x60 feet, slag roof, oak and pine floors, hot water heating, electric lighting. Contract awarded to Joseph H. Abrams, 717 Snyder avenue.

Residence and Store (alts.), 125 Pine street, $3,000. Architect, private plans. Owners, T. Grolnich & Co., on premises. General interior alterations. Contract awarded to Leroy E. Modonna, Willow Grove, Pa.

Residences and Stores (adds.), (7), 502-04-06-08-10-12-14 South Fifty-second street, Philadelphia, $2,000 each. Architect, private

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plans. Owners, Stein Brothers & Rosenberg, 1524 West Susquehanna avenue. Brick, 1 story, 3x12 feet, slag roof, electric light, pine floors. Contract awarded to Frank R. Shriver, Fifty-first and Catherine streets.

Residence, 2325 North Fifty-eighth street, Philadelphia, $3,550. Architect, private plans. Owner, Robert Scott, on premises. Brick, 2 stories, 23½x23½ feet, slag roof, oak and pine floors, also enclosed porch. Contract awarded to Milton W. Young, Overbrook, Pa.

Residence, North side Vista street, East of Duncan road, $4,700. Architect, private plans. Owner, Fred Hermandorfer, 2107 Helen street, Philadelphia. Brick, 1 story, 20x30 feet, slag roof, oak and yellow pine floors, electric lighting. Contract awarded to Harry L. Miller, 7319 Palmetto street.

Residence, 7246 Claridge street, $4,500. Architect, private plans. Owner, Charles Kohn, 2029 North Orkney street, Philadelphia. Brick, 2 stories, 22x30 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to August Glazer, 1646 North Fourth street.

Residence, North side Shelmire street, East of Whitaker street, $4,100. Architect, private plans. Owner, A. Schofield, Jr., 7358 Claridge street, Philadelphia. Brick, 1 story, 22x32 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Contract awarded to Harry L. Miller, 7319 Palmetto street.

Residence (add.), 41 West Springfield avenue, $3,500. Architect, private plans. Owner, Mrs. William Hennings, on premises. Brick, 1 story, 16x16 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to W. O. Springer, 2004 Naudain street.

Office and Residence (alts.), 3752 Manayunk avenue, $2,800. Architect, private plans. Owner, L. Sincos, M. D., on premises. Carpentry, mill work, plastering, painting, glazing. Contract awarded to Brown Const. Co., 105 Levering street.

Store and Office (alts.), 1026 Chestnut street, $3,000. Architect, private plans. Owners, Jacobs Brothers, 1024 Chestnut street, Philadelphia. General interior alterations. Contract awarded to R. C. Ballinger & Co., 925 Walnut street.

Residence (alts. and add.), 6300 Woodland avenue, $3,000. Architect, private plans. Owner, B. Ballev, on premises. Brick, 1 story, 15x19½ feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to Morris Stackhouse, 6059 Reinhard street.

Residences (3), North side Monmouth street, East of Gaul, $3,000 each. Architect, private plans. Owner, Charles Herb, 839 East Westmoreland street, Philadelphia. Brick, 2 stories, 14x28 feet, 12x12 feet, slag roof, hot water heat, electric light, oak and pine floors. Contract awarded to Frank N. Faulkner, 6709 Frankford avenue.

Residence and Store (add.), 2213-15 South Sixty-third street, $2,100. Architect, private plans. Owner, Marcus A. Benn, 5814 Springfield avenue, Philadelphia. Brick, 1 story, 16x7 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to David Resnick, 1710 North Lindenwood street.

Residence, West side Almond street, South of Orthodox street, $3,275. Architect, private plans. Owner, A. Laratcki, on premises. Brick, 2 stories, 16x42 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Contract awarded to John Bolle, 2349 Wakeling street, Philadelphia.

Shop, 1214 North Warnock street, Philadelphia, $2,900. Architect, private plans. Owners, A. Beardsley & Son, 1217 North Eleventh street, Philadelphia. Brick, 2 stories, 17x60 feet, slag roof, cement floors. Contract awarded to G. Keorth and N. Weiss, 344 Gladstone street, Philadelphia.

Garage and Storage, 405 Westview avenue, $2,500. Architect, private plans. Owner, Leslie McPherron, on premises. Stone, 2 stories, 22x21 feet, slate roof, cement floors, electric lighting. Contract awarded to W. Guenst, 600 West Lehigh avenue.

Building (alts.), 1921-27 East Wishart street, $2,500. Architect, private plans. Owner, E. I. Shuttleworth, 3054 Kensington avenue, Philadelphia. General interior alterations. Contract awarded to R. Bale, Jr., 1849 East Ontario street.

Building (repairs), 1823 Market street, $2,600. Architect, private plans. Owners, James Spear Stove Co., on premises. Carpentry, mill work, plastering, painting, glazing. Contract awarded to F. A. Havens Co., 845 North Nineteenth street.

Building (add.), 2231 North Broad street, Philadelphia, $2,500. Architect, private plans. Owner, Robert Fleming, on premises. Brick, 1 story, 18x58 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to William F. Koelle & Co., Twenty-sixth and Oxford streets.

Y. W. C. A. Building, Sixteenth and Catherine streets, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Y. W. C. A., on premises. Brick and steel, 3 stories, 73x126 feet, asphalt roof, steel sash, concrete, pine and maple floors, metal lath, copper skylights, iron work (heating, lighting, plumbing and elevators reserved). Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, but not yet signed.

Residence and Garage, Fifth and Luray streets, $8,500. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Charles J. Belsito, 248 West Tioga street, Philadelphia. Brick, 2 stories, 30x60 feet, slag roof, oak and pine floors, hot water heating, electric lighting, and 1 story, 15x49½ feet. Contract awarded to Henry P. Schneider, 3713 Old York road.

PENNSYLVANIA
Construction News

Residence and Garage, West Market street, York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, S. G. Gothwold, York, Pa. Brick, 1 and 2 stories, 32x38 feet, 20x24 feet, tile roof, hardwood and concrete floors, vapor heat, electric light, tile and marble work. Plans in progress.

City Hall (alts. and add.), York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, City of York, G. M. Bollinger, City Hall, York. Brick, 1 story, 20x65 feet, slag roof, hardwood floors, electric light, metal lath, skylights, roof ventilators. Architect ready for bids.

Stores and Apartment (alts. and add.), York, Pa. Architect, Robert Stair, Guardian Trust Building, York. Owner, L. E. Herr, York, Pa. Brick and frame, asbestos shingle roof, tile work, general alterations. Architect taking bids. S. S. Gladfelter, Hess Brothers and G. W. Gilbert, all of York, Pa., are figuring.

Packing House (add.), Williamsport, Pa. Architect, C. B. Comstock, 110 West Fortieth street, New York City. Owners, John Peters Packing Co., Williamsport, Pa. Concrete, brick and steel, 4 stories, 68x68 feet, composition roof, concrete floors, waterproofing, iron work, bond, rolled steel sash, cork insulation. Architect taking bids due April 29th. Turner Const. Co., 1713 Sansom street, Philadelphia, is figuring.

School, Ambler, Pa. Architect, S. S. Conover, 11 South Sixteenth street and Lansdale, Pa. Owners, School Board of Ambler, Ambler, Pa. Brick and steel, 2 stories and basement, 70x172 feet, will contain 10 class rooms, auditorium and gymnasium, slate covered concrete roof, composition floors, waterproofing and dampproofing, iron work, bond, kalamein and hollow metal doors, hollow metal sash, electric lighting (heating and plumbing reserved). Plans in progress.

Residence, Overbrook, Pa. Architect, William Woodburn Potter, Real Estate Trust Building. Owner, William Woodburn Potter, Real Estate Trust Building. Brick or stone. Plans in progress. Details undecided.

Residence and Garage, Altoona, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Frank Hastings, Altoona, Pa. Stone, 2½ stories. Plans in progress. Details undecided.

Rectory (demolition and rebuilding), 322 South Fifth street, Reading, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, St. Peter's Roman Catholic Church, Rev. Kiernan, on premises. Brick, 3 stories. Preliminary plans in progress.

Bungalow, West Lawn street, Reading, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owner, A. L. Hauer, 948 Washington street, Reading, Pa. Brick, 1 story, 25x43 feet, asbestos shingle roof, hardwood floors, electric light, metal lath, tile work. Plans in progress.

Stores (3), Pottsville, Pa. Architect, H. Mauer, 226 North Fifth street, Reading, Pa. Owner, S. S. Weiss, 15 North Centre street, Pottsville, Pa. Brick, 3 stories, 32x90 feet, slag roof, hardwood floors, tile work, electric light, hollow tile, roof ventilators, steel sash and skylights, fire doors, waterproofing and

dampproofing, structural iron work. Plans in progress.

Residence, Southeast Corner City Line and Bryn Mawr avenue, Wynnefield, Pa. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, John J. McGuirk, 1214 Market street, Philadelphia. Stone and stucco, 2½ stories, size of lot 120x170 feet, hot water heat, electric lighting, hardwood floors, tile and marble work. Plans in progress.

Residence, Rydal, Pa. Architects, Tilden & Register, 1525 Locust street. Owner, J. N. Frazier, care of architect. Hollow tile and stucco, 2½ stories, 30x80 feet, hardwood floors, electric lighting, tile and marble work. Plans in progress.

Warehouse and Garage, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Hersh Brothers, Allentown, Pa. Brick, steel, concrete, 3 stories, 73x21 feet, built-up roof, concrete and hardwood floors, steam heat, electric light, rolled steel sash, freight elevators. Plans in progress.

Hotel, Swenksville, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Spring Mountain House, on premises. Stone and frame, 3 stories, irregular size, slate roof, pine floors, Haynes vapor heating, electric light, structural steel work. Plans in progress.

Bungalow, Fox Chase, Pa. Architect, M. A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Mr. Bryant, care of architect. Stone, 1½ stories. Plans in progress. Will take bids in ten days.

Residence, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford. Owner, John A. Yost, Washington avenue, Phoenixville, Pa. Hollow tile and stucco, 2 stories, 26x38 feet, asbestos roof, oak and tile floors (heating, plumbing and lighting reserved), hollow tile partitions, tile and marble work, wood sash, brick work, metal columns. Plans in progress.

Residence, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford. Owner, I. J. Eisenhower, 211 South Main street, Phoenixville. Frame, stucco, 2 stories, 30x30 feet, composition roof, oak and tile floors (heating, lighting and plumbing reserved), wood sash, metal columns, waterproofing. Plans in progress.

Double Residence, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford. Owners, John Jones & Sons, Penn street, Spring City, Pa. Brick and stone, 2½ stories, 33x51 feet, slate roof, oak and pine floors (heating, lighting and plumbing reserved), wood sash, dampproofing. Plans being prepared.

Town Hall, Moving Picture Theatre and Fire Station, Richland, Pa. Architects, Richter & Eiler, Reading, Pa. Owners, Richland Fire Company, care of J. A. Fisher, secretary, on premises. Brick, 2 stories, 50x125 feet, asbestos slate roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath. Owners ready for bids.

Apartment and Store (alts. and add.), 430 North Sixth street, Reading. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owner, Robert De Turck, on premises. Brick, 3 stories, composition roof, pine floors, hot water heat, electric light, tile and marble work, general alterations. Owner ready for bids.

Church, Dauberville, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, Bellmans Church, J. G. Kauffman, Dauberville, Pa. Brick, 1 story and basement, 48x92 feet, 30x53 feet, asbestos shingle roof, pine floors, steam heat, electric light. Architect ready for bids.

Club (demolition and rebuilding), Reading, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, Northeastern Republican League, Mr. Singerly, Tenth and Walnut streets, Reading, Pa. Brick, 2 stories and basement, 54 feet 6 inches x 100 feet, slag roof, hardwood floors, vapor vacuum heat, electric light, metal lath, dumb waiter, terrazzo work. Architect will be ready for bids May 1st.

Printing Shop (add. and alts.), Kutztown, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, Kutztown Publishing Co., Charles Esser, Kutztown. Brick, steel, 2 stories, 160x24 feet, slag roof, pine floors, electric lighting, freight elevator. Owner will be ready for bids May 1st.

Lodge Building (alts. and add.), 1018 Penn street, Reading. Architects, Hugh & Huber, 11 North Fifth street, Reading, Pa. Owners, Reading Lodge, No. 155, L. O. O. M., care of Frank Glass, on premises. Brick, stone, steel, fireproof, 2 stories and basement, 74x270 feet, steam heat, electric light, tin roof, maple floors, tile work, metal lath, dumb waiters. Architect will be ready for bids in one week.

Residences (16), Garages (13), Fourteenth and Walnut streets, Harrisburg. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Howard Hipple, Harrisburg, Pa. Brick, 2½ stories, 15x50 feet, slate roof, pine floors, electric lighting. Owner will build.

Factory, Boyertown, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owners, Boyertown Casket Co., Boyertown, Pa. Mill construction, 6 stories, 70x95 feet, composition roof, maple floors, electric lighting, rolled steel sash, fire doors. Owners will take sub-bids.

Apartment (alts. and add.), 409 Walnut street, Reading. Architect, G. C. Freeman, 24 South Sixth street, Reading, Pa. Owner, J. S. Wiater, on premises. Brick, 3 stories, 130x23 feet, composition roof, concrete floors, electric light, metal lath. Owner taking sub-bids.

Residences (6), Boyertown, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owner, Mr. M. R. Strunk, Boyertown, Pa. Brick, stucco, 2½ stories, 18x40 feet, shingle roof, pine floors, pipeless heater, electric light, tile work. Owner will build.

Church, Sunday School and Parsonage, East Stroudsburg, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, East Stroudsburg Methodist Episcopal Church, Rev. J. E. Grauley, East Strtoudsburg, Pa. Brick, steel, reinforced concrete, 1 story and basement, 32x100 feet, slate and Carey roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath, metal window guards, skylights, dampproofing, ornamental iron work. Owners taking bids.

Residence, Minersville, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owner, Dr. Quinn, Minersville, Pa. Terra cotta, brick, 2 stories, 25x90 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Architect taking bids due April 30th.

Twin Residence, Sinking Spring, Pa. Architect, Warren D. Heinly, 542 Franklin street, Reading, Pa. Owner, Edwin G. Ruth, 601 Penn avenue, West Reading, Pa. Brick, 2½ stories, 32x36 feet, slate roof, concrete foundations, electric lighting. Owner subletting.

Glen-Nor High School Building, South avenue, between Sylvan and Trites avenues, Ridley Township, Pa. Architects, C. W. Brazer and R. M. Dickhut, Crozer Building, Chester, Pa. Owners, Joint School Boards of Glenolden and Norwood, Delaware County, Pa., Frank Roberts, president, S. C. Wright, secretary, P. O. Box 541, Norwood, Delaware County, Pa. Sixteen-room brick building, including gymnasium, assembly room (heating, plumbing and electric work separate bids). Architects will take bids due May 16th at 5 P. M., to be opened at 8 P. M. by owners. Deposit, $25.00. Refund, $20.00.

Power House, Chambersburg, Pa. Architect (engineer), Albert C. Wood, Stock Exchange Building. Owners, Borough of Chambersburg, Chambersburg, Pa. Brick and steel, 1 story, 80x95 feet, cement floors, slag roof. Plans completed. Owners will take bids.

Nurses' Home (add.), Harrisburg, Pa. Architect, J. A. Dempwolf, York, Pa. Owners, Harrisburg State Hospital, E. M. Green, M. D., superintendent. Brick and stone, third floor addition to present building. Owner taking bids. Plans may be obtained after April 29th. Deposit, $10.00. Refund, $5.00.

Supplies, State of Pennsylvania, Harrisburg, Pa. Owners, Board of Commissioners of Public Grounds and Buildings, William C. Sproul, Governor; T. W. Templeton, superintendent, Harrisburg. Laboratory and engineering supplies, paints, park supplies, general repairs and hauling, plumbing and power plant material. Owners taking bids due May 9th at noon.

Twin Residence, Ogontz, Pa. Architect, private plans. Owner, Thomas Donahue, care of builder. Stone, 2½ stories, 35x45 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner taking bid from E. Allen Reeves, Abington, Pa., due April 28th.

Bungalow, Florida Park, Newtown Square, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Frederick Lawall, Florida Park, Newtown Square, Pa. Stone, 1½ stories, 30x45 feet, shingle roof, hardwood and pine floors, pipeless heater, electric light. Owner will build and is taking sub-bids.

Office Building and Clock House, Swedeland, Pa. Architect, Ernest Green, 141 East Forty-fifth street, New York City. Owners, Rainey Wood Coke Co., 52 Vanderbilt avenue, New York City. Brick, cut stone and steel, 1 story and basement, 89x42 feet and 24x24 feet, slate roof, cement, linoleum and flortyle floors, iron window guards, waterproofing, iron work and stairs, floor hardener, rolled steel skylights, marble and terrazzo, metal lath, electric work. Owners taking bids due May 1st.

Store and Apartment (alts. and add.), Seventeenth and Union streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, J. M. Bachman, on premises. Brick, 3 stories, 20x70 feet, slag roof, hardwood floors, steam heat, electric light, plate glass, copper work. Owner taking bids due as soon as possible.

Residence, Bethlehem, Pa. Architect, C. M. Lovelace, Bethlehem Trust Building, Bethlehem. Owner, Dr. R. N. Wall, 62 East Broad street, Bethlehem, Pa. Stone, 2 stories, 58x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due as soon as possible.

Residence, Sedgwick Farms, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street. Owner, Miss M. E. Warner, care of architect. Stone, 2½ stories, 45x29 feet, wing 13x24 feet, slate roof, oak and pine floors, hot water heat, electric light, iron work. Architect taking bids due April 27th.

Residence, Sedgwick Farms, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Miss M. E. Warner, care of architect. Stone, 2½ stories, 58x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due April 27th.

Road Work, Pennsylvania. Owners, State Highway Department, Capitol Building, Harrisburg. Lowest bids submitted on the folloing roads opened April 18th:

Armstrong County, R-69, North Buffalo and East Franklin Townships and West Kittan-

ning Borough, 30,191 feet. One course reinforced concrete. Charles Winters Const. Co., Renfrew, Pa., $270,131.60.

Armstrong County, R-67, A-1541, Manor Township, 10,560 feet. One course reinforced concrete and hillside vitrified brick. The Jones Const. Co., Salem, Ohio, $111,782.85.

Blair County, R-57, Snyder Township, 17,120 feet. One course reinforced concrete. John Herrmann, Latrobe, Pa., $132,787.50.

Cambria County, R-276, Summerhill and Portage Townships, Wilmore and Portage Boroughs, 21,454 feet. One course reinforced concrete. M. O'Herron Co., Pittsburgh, Pa., $153,124.00.

Chester County, R-147, West Vincent, East Nantmeal and South Coventry Townships, 21,294 feet. One course reinforced concrete. Mallery & Fitzpatrick, Long Island City, N. Y., $207,775.10.

Clarion County, R-214, Toby and Madison Townships and Rimersburg Borough, 15,334 feet. One course reinforced concrete. R. V. Baldwin, Coraopolis, Pa., $121,291.40.

Clearfield County, R-221, Appli. 1729, Mahaffey Borough, 4,187 feet. One course reinforced concrete. Burnside Const. Co., Inc., Burnside, Pa., $33,362.38.

Clearfield County, R-234, Woodware Townshsip, 6,186 feet. One course reinforced concrete. R. J. DeLong, Williamsport, 53,083.05.

Clearfield County, R-234, Houtzdale Borough, 4,092 feet. One course reinforced concrete and hillside vitrified brick. R. F. DeLong, Williamsport, Pa., $38,500.15.

Clearfield County, A-1725, Bradford Township, 3,706 feet. One course reinforced concrete. Warren Brothers Co., Boston, Mass., $30,070.15.

Crawford County, R-84, Hayfield, Venango and Woodcock Township, and Venango and Saegertown Borough, 28,289 feet. One course reinforced concrete. H. E. Bunce, Olean, N. Y., $229,298.05.

Crawford County, R-207, East Fairfield and Wayne Townships and Cochranton Borough, 43,691 feet. Either bituminous surface course on concrete foundation and one course reinforced concrete or one course reinforced concrete. R. D. Baker Co., Detroit, Mich., $318,619.43.

Crawford-Venango Counties, R-89, Randolph and Troy Townships and Plum Township, 31,562 feet. One course reinforced concrete. Charles H. Fry Const. Co., Erie, Pa., $272,426.10.

Erie County, R-295, Platea Borough, 7,977 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Charles H. Fry Const. Co., Erie, Pa., $49,759.13.

Erie County, A-1641, Fairview Township, 1,022 feet. Either bituminous macadam on broken stone base or one course reinforced concrete. Charles H. Fry Const. Co., Erie, Pa., $6,884.40.

Indiana County, R-68, Center, Blacklick and Burrell Township, 21,058 feet. One course reinforced concrete. W. C. Guncheon & Co., Smethport, Pa., $177,047.50.

Jefferson County, R-60, Reynoldsville Borough, Winslow and Pine Creek Townships, 30,342 feet. One course reinforced concrete. Henry W. Horst Co., Rock Island, Ill., $269,391.39.

Lackawanna County, R-322, Appli. 1632, Scott Township, 8,648 feet. One course reinforced concrete. Michael Rosato Sons Co., Inc., Scranton, Pa., $78,902.63.

Lawrence County, R-215, Appli. 1774, Shenano, Slippery Rock and Wayne Townships, 33,327 feet. Either one course reinforced concrete or two course reinforced concrete. Burns & Burt, Ellwood City, Pa., $251,937.71.

Mercer County, R-208, A-1758, Sandy Lake and Jackson Townships and Sandy Lake and Stoneboro Boroughs, 31,869 feet. One course reinforced concrete. Strange & Payne, Mercer, Pa., $230,412.50.

Mercer County, R-238, A-1754, Hickory Township, 7,528 feet. One course reinforced concrete. J. C. Devine Co., Alliance, O., $63,147.45.

Mercer County, R-208, A-1752, Mercer Borough, 2,190 feet. One course reinforced concrete. Jamieson & Narlee, Fredonia, Pa., $29,813.50.

McKean County, R-100, A-1625, Foster Township, 7,827 feet. One course reinforced concrete. D. Leroy Dennis, Eldred, Pa., $63,025.56.

Snyder-Juniata Counties, R-194, 195, Penn, Union and Chapman Townships and Susquehanna Townships, 64,056 feet. Either bituminous surface course on concrete foundation and one course reinforced concrete or one course reinforced concrete. Piel Const. Co., Baltimore, $555,885.57.

Venango County, R-90, Appli. 1828, Cooperstown Borough and Jackson Township, 9,374 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Seiple-Wolfe Const. Co., Youngstown, O., $80,465.10.

Venango County, R-218, A-1829, Scrubgrass and Clinton Townships, 34,747 feet. One course reinforced concrete and hillside vitrified brick. L. H. Young Const. Co. and Russell Brothers, West Austintown, Ohio, $309,424.35.

Venango County, R-91, A-1826, Cranberry Township, 28,360 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. George S. White Co., Pittsburgh, $212,146.29.

Venango County, R-207, Canal and Sugar Creek Townships, 17,452 feet. One course reinforced concrete. Samuel Gamble Co., Carnegie, Pa., $148,477.25.

Warren County, R-279, A-1811, Sugar Grove Township, 19,156 feet. Either bituminous surface course on concrete foundation and one course reinforced concrete or one course reinforced concrete. Fred W. Knickenberg, Buffalo, N. Y., $141,000.70.

Warren County, A-1846, Sheffield Township, 1,015 feet. One course reinforced concrete. Sheffield Concrete Co., Sheffield, Pa., $14,334.60.

York County, R-216, 333, Red Lion Borough, 8,078 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Warren Brothers Co., Boston, Mass., $128,052.93.

York County, R-333, York, Windsor and North Hopewell Townships, 13,911 feet. One course reinforced concrete. Bethlehem Eng. & Const. Co., Bethlehem, Pa., $88,473.70.

York County, R-250, Newberry Township and Fairview Township, 18,545 feet. One course reinforced concrete and hillside vitrified brick. McInerney & McNeal, Inc., Easton, Pa., $152,062.11.

York County, R-230, West Manchester and Jackson Townships and Spring Grove Borough, 25,883 feet. One course reinforced concrete. Bethlehem Eng. & Const. Co., Bethlehem, Pa., $173,067.28.

Viaduct, Springfield and Nether Providence Townships, Delaware County, Pa., also **Approaches to Bridge.** Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa. Reinforced concrete, reconstructing 1,129 lineal feet bituminous macadam surface course. Low bidder: J. E. Brenneman & Co., North American Building, Philadelphia, $86,979.14.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Capitol Building, Harrisburg, Pa. Low bidders on road work, opened April 19th:

Allegheny County, R-70, Springdale and East Derr Township, 13,365 feet. One course reinforced concrete. The Donald McNeil Co., Pittsburgh, Pa., $129,825.20.

Armstrong County, R-251, O-1455, East Franklin Township, 19,224 feet. One course reinforced concrete. Smethport Const. Co., Union City, Pa., $140,086.00.

Beaver County, Appli. 254, Center Township, 2,990 feet. One course reinforced concrete. George S. White Co., Pittsburgh, $28,853.70.

Blair County, R-55, Logan and Antis Townships, 30,282 feet. One course reinforced concrete. Pottsville Const. Co., Pottsville, Pa., $254,273.22.

Cambria County, R-62, West Carroll, East Carroll and Susquehanna Townships, Spangler and Carrolltown Boroughs, 32,322 feet. One course reinforced concrete and hillside vitrified brick. Polo C. Azzara Const. Co., Cresson, Pa., $250,802.65.

Clearfield County, Appli. 1724, Bradford Township, 16,074 feet. One course reinforced concrete. Johnson & Kearns, Dubois, Pa., $118,848.64.

Clearfield County, R-59, Curwensville and Grampian Boroughs, Pike, Penn and Bloom Townships, 53,244 feet. One course reinforced concrete. Pottsville Const. Co., Pottsville, Pa., $534,206.90.

Clearfield County, R-276, Bigler Township, 11,920 feet. One course reinforced concrete. Standard Cont. Co., Altoona, Pa., $86,510.26.

Clearfield County, R-234, Coalport Borough, 4,085 feet. One course reinforced concrete. Thomas J. Strickler, Huntingdon, Pa., $37,816.06.

Crawford County, R-207, West Mead Township, 22,608 feet. One course reinforced concrete. Smethport Const. Co., Union City, Pa., $173,122.10.

Crawford County, R-89, Fmean and Randolph Townships, 30,012 feet. One course reinforced concrete. Frank L. Cohen, Inc., Buffalo, N. Y., $233,484.23.

Erie County, Appl. 1111, Girard Township and Borough, 9,822 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Mayer Brothers Const. Co., Erie, Pa., $67,627.65.

Lackawanna County, R-365, Appl. 1759, North Abington and Benton Townships, 24,856 feet. One course reinforced concrete. R. O. Richardson Const. Co., Scranton, Pa., $202,111.50.

Mercer County, R-208, Appl. 1757, Sandy Lake Township and Borough, 23,235 feet. One course reinforced concrete. Smethport Const. Co., Union City, Pa., $174,751.30.

Perry County, R-195, Buffalo Township and Liverpool Borough, 33,672 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Lowest bidders: Ambler-Davis Co., Harrison Building, Philadelphia, $313,000.

Mercer County, R-238, Appl. 1753, Hickory Township, 4,974 feet. One course reinforced concrete. W. S. Morrison, New Brighton, Pa., $44,251.08.

Mercer County, R-312, A-1750, Pine, Wolf Creek and Worth Townships, 30,726 feet. One course reinforced concrete. Garvey-Weyenberg Const. Co., Appleton, Wis., $187,912.00.

Mercer County, A-1751, Delaware Township and Fredonia Borough, 12,953 feet. One course reinforced concrete. W. S. Morrison, New Brighton, Pa., $78,681.10.

Mercer County, R-82, Sugar Grove Township, 14,582 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Smith Const. Co., Youngstown, Ohio, $101,891.18.

Venango-Mercer County, R-207, French Creek and Canal Township, 27,451 feet. One course reinforced concrete. Smethport Const. Co., Union City, Pa., $203,136.65.

Monroe County, R-165, A-1665-1666, Ross and Hamilton Townships, 17,812 feet. One

course reinforced concrete and hillside vitrified brick. Bethlehem Eng. & Const. Co., Bethlehem, Pa., $126,361.60.

Venango County, R-218, A-1827, Irwin and Clinton Townships and Clinton Borough, 32,167 feet. One course reinforced concrete and hillside vitrified brick. L. H. Young Cont. Co. and Russell Brothers, West Austintown, Ohio, $284,530.75.

Venango County, A-1856, Cornplanter Township, 15,560 feet. One course reinforced concrete. H. P. Streicher Co., Inc., Toledo, Ohio, $120,213.05.

Warren County, A-1812, Freehold Township, 18,238 feet. Either bituminous surface course on concrete foundation and one course reinforced concrete or one course reinforced concrete. Frank L. Cohen, Inc., Buffalo, N. Y., $119,209.00.

York County, R-190, Wellsville Borough, Washington and Warrington Townships, 18,309 feet. One course reinforced concrete. Mallory & Fitzpatrick, Long Island City, N. Y., $113,871.00.

York County, R-216, Chanceford and Windsor Townships, 25,145 feet. One course reinforced concrete. Comerford Const. Co., Fifth and Sansom streets, Philadelphia, $153,101.56.

York County, R-332, Spring Garden, Windsor, Springettsbury Townships, 25,089 feet. One course reinforced concrete. Comerford Const. Co., Fifth and Sansom streets, Philadelphia, $157,636.45.

Luzerne County, R-4, Hunlock Township, one reinforced concrete bridge, reconstruction 789 feet one course reinforced concrete pavement. R. D. Richardson Const. Co., Scranton, Pa., $19,892.54.

Residence and Garage, Lansdowne, Pa. Architects, I. Demschick and Arthur Nicholson, 1701 Chestnut street. Owner, C. W. R. Smith, care of architects. Brick and stucco, 2½ stories, 31x55 feet, and 1½ stories, 16x20 feet, slate roof, oak and pine floors, hot water heating, electric light, tile and marble and iron work. Architects taking bids due April 28th. J. M. Yardley, 1716 Sansom street; William J. Ryder, 1716 Sansom street; John Schnabel, Inc., Denckla Building; A. H. Moorehead, 67 Laurel street, and H. Platt, 4543 North Warnock street, are figuring.

Pennsylvania Contracts Awarded

Residence, Camp Hill, Pa. Architect, Robert Stair, Guardian Trust Building, York. Owner, G. W. Kehr, 204 Chestnut street, Harrisburg, Pa. Brick, 2½ stories, 31x42 feet, slag roof, hardwood floors, vapor heat, electric light. Contract awarded to J. A. Bentz, Lemoyne, Pa.

Triple Residences (2), Cynwyd, Pa. Architect, J. Bedford Wooley, 1627 Sansom street, Philadelphia. Owners, Shelton, Dolan & Mancel, Cynwyd, Pa. Brick and plaster, 2½ stories, 56x25 feet, shingle roof, oak and pine floors, metal lath, hot water heat, electric lighting, tile work. Contract awarded to C. C. Eddleman, 1627 Sansom street.

Silk Throwing Plant, Bethlehem, Pa. Architects, William Steele & Sons Co., 1600 Arch street. Owner, R. K. Laros Silk Co., Bethlehem, Pa. Brick and steel, 3 stories, 60x240 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash and skylights, fire doors, elevators, waterproofing. Contract awarded to Brillhart Brothers, Bethlehem, Pa.

High School and Auditorium, Throop, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, School District of Throop, care of architect. Brick, 2 stories, 111x120 feet, slag roof, pine and cement floors, hot water heating, electric lighting, tile, marble and terrazzo work, hollow tile, metal lath, rolled steel sash and skylights, fire doors, gymnasium and domestic science equipment, metal window guards, metal weather strips, waterproofing and dampproofing, iron stairs, ornamental iron work. Contract awarded to Alaimo Brothers, Pittston, Pa.

High School, West Reading, Pa., $76,970. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owners, Reading School Board, care of Oscar Heim, secretary, Reading, Pa. Brick, terra cotta, 3 stories, 75x130 feet, slag roof, hardwood floors (electric work, heating and plumbing reserved), metal lath, roof ventilators, tile work, iron stairs, ornamental iron work. Contract awarded to Butz & Clader, Ainey Building, Allentown, Pa.

Residence, Haverford, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Hugh McIlvain, Crozer Building, Philadelphia. Stone, 2½ stories, 55x40 feet and 45x20 feet, shingle roof, hardwood floors, hot water heat, electric lighting, cement work, tile work. Contract awarded to H. P. Wolfe & Co., Bryn Mawr, Pa.

Residence No. 42, Wynnewood, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Frame, 2½ stories, 31x27 feet and 27x25 feet, shingle roof, oak and pine floors, iron work, tile work (heating, plumbing and electric work reserved). Contract awarded to John E. Kearney, 34 South Sixteenth street.

Residence, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, John Hohlefelder, Jenkintown, Pa. Brick, 2½ stories, 27x36 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Frank W. Carman, Abington, Pa.

Cottage, Haverford, Pa. Architect, William Woodburn Potter, Real Estate Trust Building. Owner, C. W. Middleton, Haverford, Pa. Frame, 2½ stories, 36x24 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to F. A. Havens Co., 845 North Nineteenth street.

Bungalow, River Drive, Harrisburg, Pa. Architect, Paul L. Boyd, 5110 Warrington avenue, Philadelphia. Owner, Mrs. George W. Giede, 1612 Green street, Harrisburg. Hollow tile and stucco, 1 story, 34x65 feet, garage and sleeping porch in rear, Spanish tile roof, hardwood floors,plumbing, heating, electric lighting. Contract awarded to J. A. McKelvey, Harrisburg, Pa.

Farmer's House, Radnor, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, H. A. Berwynd, Radnor, Pa. Stone, 2½ stories, 32x28 feet, slate roof, oak, pine and composition floors, hollow tile, metal weather strips, hot water heat, electric light, tile work. Contract awarded to Millard N. Croll, Radnor, Pa.

Residence, Glenside, Pa. Architect, private plans. Owner, Charles Kauffman, Glenside, Pa. Brick, stone and stucco, shingle roof, hot water heat, electric light, oak and pine floors, mill work, plastering. Contract awarded to Albert Dunlap, 7223 Oak avenue, Oak Lane, Philadelphia.

Bakery (add.), Coplay, Pa. Architect, C. N. Grossart, 603 Hamilton street, Allentown, Pa. Owner, William J. Burke, Coplay, Pa. Brick, 1 story, 24x48 feet, asphalt roof, concrete and maple floors, hot water heating, electric lighting. Contract awarded to A. W. Hirst, Northampton, Pa.

Mill Building (add.), Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford. Owners, E. Emmons & Co., First avenue, Royersford, Pa. Brick, stone, 4 stories, 50x38 feet, slate roof, yellow pine floors (heating, plumbing, lighting reserved), fireproofing. Contract awarded to W. A. Becker, Gay street, Royersford, Pa.

Residence, Front and Emerald streets, Harrisburg, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owner, W. L. Forry, 37 North Third street, Harrisburg, Pa. Stone, 2 stories, 25x60 feet and 25x30 feet, tile roof, hardwood and composition floors, vapor heat, electric light, tile work. Contract awarded to H. A. Hipple, Harrisburg National Bank Building, Harrisburg, Pa.

Garage, Rydal, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Williams Realty Co., Rydal, Pa. Stone, 1½ stories, 21x23 feet, shingle roof, cement floors, hot water heat, electric lighting. Contract awarded to W. John Stevens, Inc., Wyncote, Pa.

New Jersey Construction News

Municipal Poultry Market, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, Board of Commissioners. Brick and steel, 1 story, 212x103 feet, slate and slag roof, concrete floors, metal lath, floor hardener, iron work (lighting and plumbing separate bids). Lowest bidders: F. V. Warren, 132 South Seventeenth street, Philadelphia, $39,518; W. Beaumont, Atlantic City, N. J., $40,900.

School, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton. Owners, Bordentown School Board, Edward Becktel, secretary, Bordentown, N. J. Brick, 2 stories, 128x110 feet, slag roof, hardwood floors, unit heating, electric lighting, tile work, hollow tile, roof ventilators, waterproofing. Plans in progress.

Club House, Grant and Bentley streets, Trenton, N. J., $30,000. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Polish Gymnastic Society, care of architect. Brick, 3 stories and basement, 25x95 feet, slag roof, hardwood floors, steam heat, electric light, tile work, metal lath, safety treads, roof ventilators, skylights, fire doors, waterproofing. Architect ready for bids.

Garage, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, Joseph Szul, care of architect. Steel and brick, 1 story, 50x150 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash and skylights. Owner ready for bids.

Residence and Garage, Wittier and Belmont Circle, Trenton, N. J. Architect, J. O. Hunt, Hunt Bldg., Trenton, N. J. Owner, W. C. Billman, 1320 West State street, Trenton, N. J. Stone and stucco, 2½ stories, 82x34 feet, 1 story, 20x20 feet, slate roof, hardwood floors, vapor heat, electric light, tile work, marble work. Architect will be ready for bids next week.

Bank Building, Third and Market streets, Camden, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, West Jersey Title & Guaranty Co., premises. Stone and brick, 2 stories, 35x70 feet. Plans in progress. Architect will be ready for bids in ten days.

Residence, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mr. M. Morris, care of architect. Brick and frame, 2½ stories, 25x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due April 28th.

Residences (2), 1322-24 Hamilton street, Trenton, N. J., $5,000. Architect, private plans. Owner, John Manziand, 221 Cooper street, Trenton, N. J. Concrete block and frame, 41x14 feet, slate roof, pine floors, electric lighting, steam heating. Owner will build.

Ferry Houses, Tacony and Palmyra, N. J. Engineer, John Meigs, 1211 Walnut street, Philadelphia. Owners, Tacony & Palmyra Ferry Co., care of George T. Sale, Liberty Building, Philadelphia. Metal siding and roof, pine and composition floors, hot water heat, electric light, metal ceilings, iron work. Owners are building.

New Jersey Contracts Awarded

Passenger Station, Fourteenth street, Ocean City, N. J. Architect, Samuel Wagner, Reading Terminal, Philadelphia. Owners, Atlantic City R. R., Philadelphia and Reading R. R., Twelfth and Market streets. Brick, 1 story, 32x15 feet, platform, 111x30 feet, asbestos built-up roof, concrete floors, electric light, iron work. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Garage, Haddonfield, N. J., $12,000. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owner, Joseph F. Walworth, Haddonfield, N. J. Brick and steel, 1 story, 50x100 feet, slag roof, concrete floors, steam heat, electric light. Contract awarded to J. M. Yardley, 1716 Sansom street.

Klockner School (add.), Hamilton Township, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Hamilton Township School Board, William A. Robinson, Greenwood School, Greenwood avenue, Trenton, N. J. Brick, 2 stories, 4 rooms, slate roof, hardwood floors, steam heat, electric light, tile work, hollow tile, metal lath, roof ventilators, skylights, iron stairs. Contract awarded to James H. Morris Co., Inc., Broad and Hudson streets, Trenton, $37,997. Electric work awarded to Charles Deller, Trenton, $1,206. Plumbing work awarded to William G. Royer, 510 Stuyvesant avenue, Trenton, N. J., $2,825. Heating awarded to Kemble-Martin Co., Trenton, $6,794.

Stores (9), Garden Pier, Atlantic City, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Pier Realty & Holding Co., Atlantic City, N. J. Hollow tile, stucco, cut stone and steel, 1 story, 290x50 feet, slag and tile roof, cement and pine floors, hollow tile, metal lath, terra cotta, iron work, metal bulks, plate glass, bond, terrazzo work. Contract awarded to F. V. Warren, 132 South Seventeenth street, Philadelphia.

Pier, Theatre, Stores and Apartments, Cape May, N. J. Architect, Andrew J .Sauer, Denckla Building, Philadelphia. Owners, Hunts Theatre Co., 1220 Vine street, Philadelphia. Frame and timber, first section, 125x90 feet, slag and Spanish tile roof, cement, tile and plastic floors, electric lighting, plumbing, mineral stucco, wood piles. Contract awarded to Sherman S. Sharp, Cape May, N. J. Bids will be taken on theatre and apartments in fall of 1922.

Residence, Haddonfield, N. J., $12,000. Architect, private plans. Owner, Dr. Percy Houseman, Haddonfield, N. J. Brick, 2½ stories, 36x28 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to James W. Draper, 436 Haddon avenue, Camden, N. J.

Club House (add.), Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Moorestown County Field Club, Moorestown, N. J. Locker room and kitchen addition, frame, 2 stories, shingle roof, general alterations. Contract awarded to A. F. Aitkens, Third and Union streets, Moorestown, N. J.

Building (alts.), Orchard and Mt. Vernon streets, Camden, N. J., $2,500. Architect, private plans. Owners, Camden Pottery Co., Camden, N. J. Carpentry, mill work, sheet metal work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Miscellaneous Construction News

Residence, Towson, Md. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, John Doebler, Baltimore, Md. Frame, clapboard, 2½ stories, 22x39 feet, shingle roof, oak and pine floors, hot water or vapor heat, electric lighting, tile work. Revised plans in progress.

Church (add.), Seventh and Randolph streets, Washington, D. C. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Petworth Baptist Church, Rev. Paul Langhorne, 615 Quincy street, Washington, D. C. Stone, 1 story and basement, 42x90 feet, slate roof, electric lighting. Contract awarded to J. F. Mills, 3922 H street, N. W., Washington, D. C.

DISTINGUISHING CHARACTERISTICS OF MAHOGANY

Only true mahogany from tropical America, "African mahogany," and "Philippine mahogany" are commonly sold as mahogany in this country, but at various times over 60 different species of timber have been sold under that name. Although all of these species resemble each other in varying degrees, tropical American mahogany and "African mahogany" possess one important characteristic in common. This is the occurrence of dark amber-colored gum in many of the pores. The gum does not fill the pores but is recognized as dark specks or streaks in the pores as seen on end or side grain. This gum is barely visible to the naked eye, but is easily seen through a hand lens with a magnification of 10-15 diameters. In preparing the end grain of the wood for examination, a very sharp knife should be used to make a smooth cut.

Some other woods have similar dark masses of gum in the pores, but none of these are commonly substituted for mahogany. Among them are crabwood and sapeli, species imported from South America in small quantities only, and the Cedrelas (Spanish cedar, etc.), which are rarely sold as mahoganies, and are easily recognized by their odor.

True mahogany has fine, continuous, concentric lines on the cross section usually from ⅛ to ½ inch apart, which distinguish it from "African mahogany" in which these lines never occur.

"Philippine mahogany," although not marked by the black masses of gum, is distinguished from true mahogany and other so-called mahoganies by the presence of fine, white, tangential lines ⅛ inch to several inches apart, readily visible to the naked eye, and showing under a lens as rows of small openings filled with a white substance.

A more complete key and description of mahogany and so-called mahogany, which describes common species in detail, may be obtained from the Forest Products Laboratory.

THE YELLOW STAIN ON HARDWOOD

A troublesome defect often found in hardwood lumber is that recognized as yellow stain. It is usually distinguished by a pale yellow color, occurs generally in streaks, and is detected most easily when the wood is surfaced, although at times it is present without any discoloration of the wood. Its first symptom may be a moldy appearance of the wood. Yellow stain has been observed by the Forest Products Laboratory in hickory and maple tool handles, in birch veneer, and in oak airplane propellers and wheel spokes. It is classified in the *Pencillium divaricatum* group of fungi, and resembles one of the fungi which damage wood pulp.

The only damage that yellow stain is positively known to do is to mar the appearance of the finished product, since it usually penetrates the wood so deeply that it can not be surfaced off. It is probable, however, that the fungus actually weakens the wood, and the use of yellow-stained lumber for airplane construction or similar purposes where strength is important is to be discouraged until more is known about the action of the fungus on wood structure.

Lumber can be protected from attack of the yellow-stain fungus by seasoning the stock without delay after it is cut, storing it in a dry place, or treating it with preservatives.

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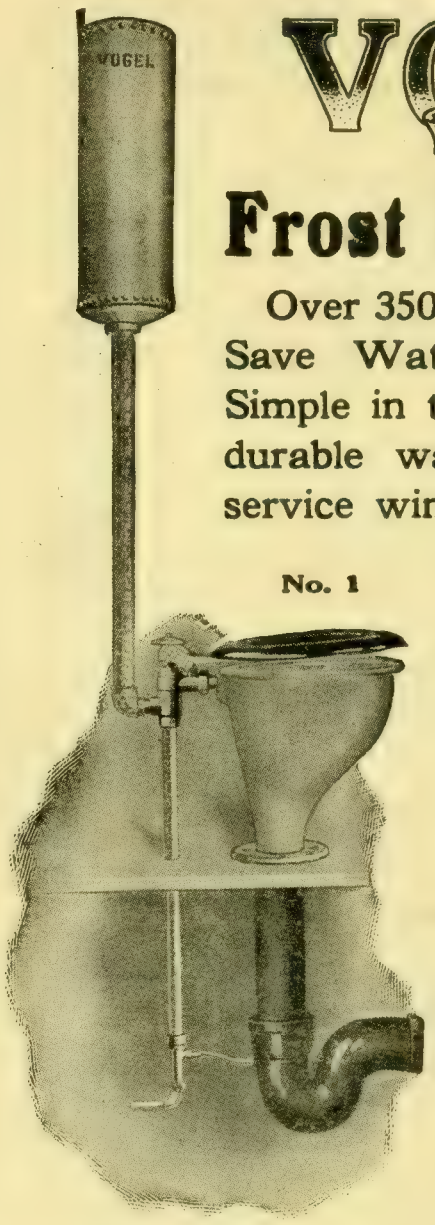
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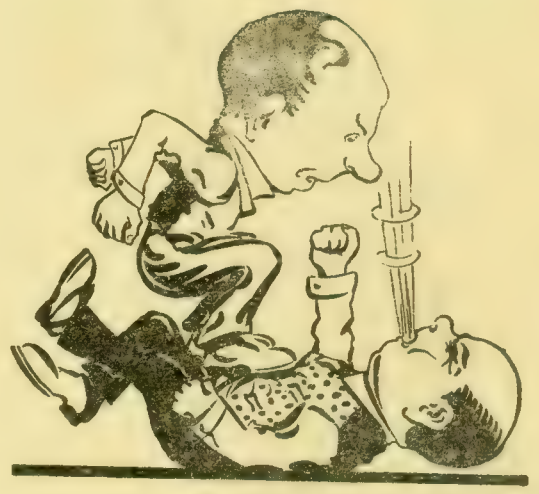
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May 3, 1922

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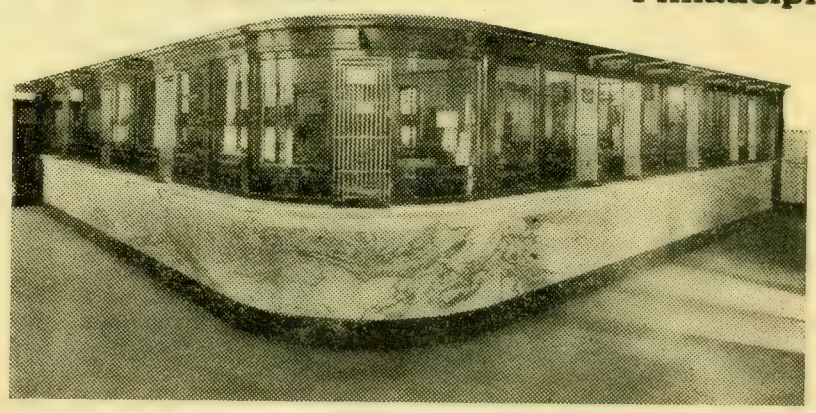
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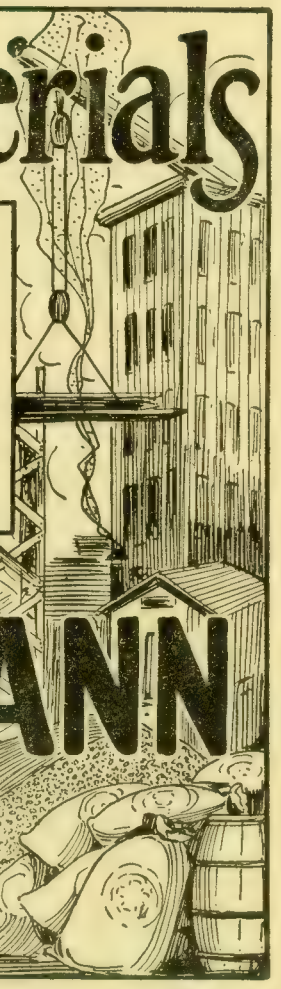


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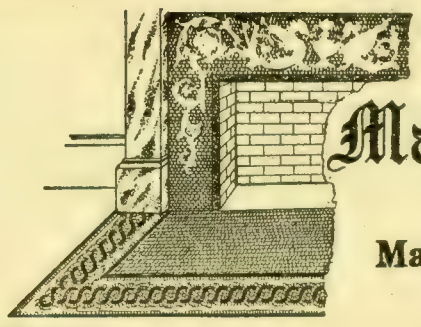


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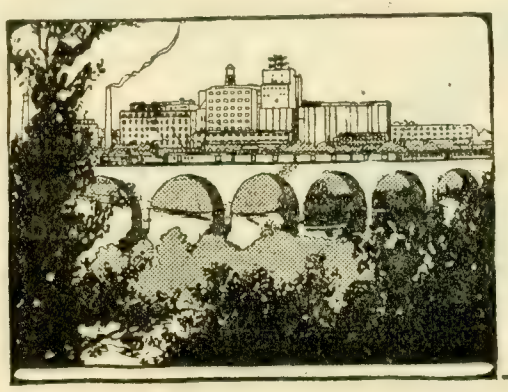
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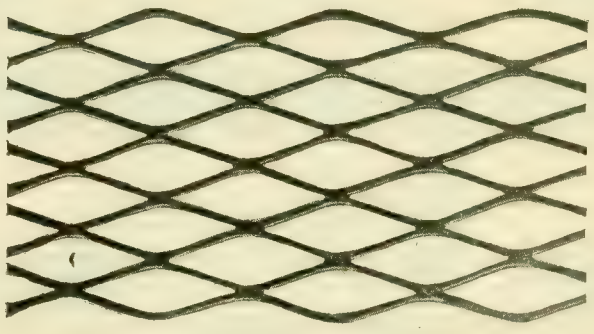
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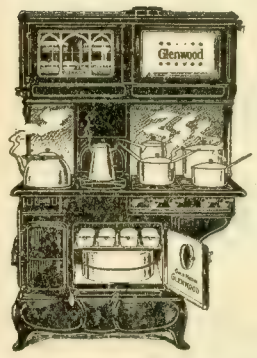
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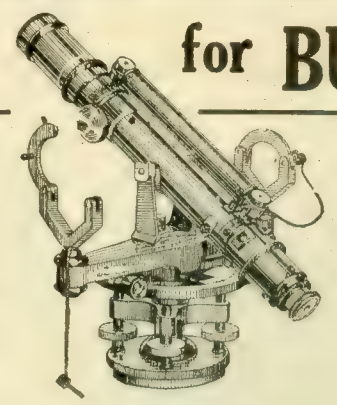
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BUILDERS' GUIDE

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As The Editor Sees It

IN answer to the questions from many cities and communities as to what action may be taken locally to *eliminate unfair trade practices* in the Construction Industry wherever they exist and to bring about a revival of construction activities, the Committee on Construction Development appointed by Secretary Hoover makes the following suggestions as a general basis which may be added to and modified in such ways as the individual community may desire:

As a preface to the statement of suggested plan, the following excerpts are quoted from the official report of the President's Conference on Unemployment, held in Washington, September 26th to October 13th, 1921:

"The greatest area for immediate relief of unemployment is in the construction industry, which has been artificially restricted during and since the war.

There are three outstanding factors in the building and construction situation which have the greatest bearing on the resumption of construction activities. They are *financing, material costs, and labor costs.* These factors present questions which cannot be settled in a national way; they must be investigated by those interested in each community for itself. The questions are:

(a) Can the prospective investor finance the operation *at a reasonable cost?*

(b) Does the cost of construction materials to the prospective investor properly represent the *reduction which has been made in the wholesale prices?*

(c) Is labor in the particular locality working at fair rates and giving fair value in the quantity and *quality of work done?*

Money must be made available on reasonable terms and in reasonable volume and free from demands for bonuses and commissions of a questionable character.

In many instances retailers of construction materials have not yet followed the reduction of manufacturers and wholesalers in their resale prices. This is an important subject to be taken up locally in each community. The retailers must be shown the necessity of bringing their prices to local buyers down to a point consistent with the reductions made in wholesale prices, after taking into consideration increases in freight rates or legitimate increases in cost which exist in other directions.

Labor:

This can not be regulated by national action. The cost of living, rentals, and working conditions differ in various communities, where fair wage adjustments have not been made, construction is held up. Such conditions should be dealt with fairly and frankly between employer and workmen and reasonable readjustments promptly made.

Approaching this subject, we believe that the employer should not permit the wage of his workmen to go below that point at which it not only provides sufficient income to take care of the necessities of life, but also enough to enable the famly to educate the children properly; to provide reasonable comforts and conveniences; and to permit systematic savings, even though small. In the comparison of wages for building artisans with those of other industries due allowance should be made for seasonal unemployment.

The workman, on the other hand, should deliver maximum production with proper interest in the welfare of the business out of which his wages are paid and should eliminate restrictions and measures which tend to interfere with his production or with the production of others. The stoppage of work from jurisdictional controversies in the construction industry should be permanently abandoned as detrimental to the public welfare.

The continuation of unfair practices is a factor contributing to high costs in some localties.

Notwithstanding the improvements which have been taken place in some instances with respect to the practices in the industry, it is apparent that there still exist trade abuses, waste, and unnecessary expense. It is a first essential of the proper development of the contruction industry on a sound basis that all practices which unnecessarily retard

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the work or add to its cost should be immediately discountenanced and abandoned, if the confidence of the public is to be fully restored."

Suggested Plan for Community Construction Conferences

Based upon the conclusions quoted above, each Community is urged to give careful consideration to its own situation with regard to construction and to set up the necessary machinery and get it in motion as promptly as possible along the following general lines:

The Local Chamber of Commerce or other impersonal and impartial local commercial organizations should be called upon to appoint a local committee on construction development, which committee should fairly represent the various important elements in the construction field and should have on it at least one representative who might fairly be considered to represent the Public. All members of the committee should be men unquestioned standing in the community, who are known to be fair and reasonable in their attitude and in whom the Public can have entire confidence. It should largely be made up of men who are familiar with the construction interests and who will devote the time necessary to the carrying on of this work. The Committee should proceed with the idea that they are planning sound operations, not for the next few months only but for a period of years, in order that greater stability may be brought into the industry. In this connection, the following is quoted from the official report of the President's Unemployment Conference previously referred to:

"The business cycle is marked by peak periods of boom between valleys of depression and unemployment. The peak periods of boom are times of speculation, over-expansion, extravagance in living, relaxation in effort, wasteful expenditure in industry and commerce, with consequent destruction of capital. The valleys are marked by business stagnation, unemployment and suffering. Both of these extremes are vicious, and the vices of the one beget the vices of the other. It is the wastes, the miscalculations, and the maladjustments grown rampant during booms that make inevitable and painful process of liquidation. The most hopeful way to check the losses and misery of depression is therefore to check the feverish extremes of 'prosperity.'"

The members of the Committee must start with open minds. A representative of any one group must not start with the idea that his sole function is the collection and presentation of evidence in defense of the group. It is possible that certain bad practices are followed by a small percentage of certain groups and if each group will try to eliminate these practices, much progress will be made.

This Committee cannot accept as facts the statistics collected by interested parties in their attempts to prove their cases, but must verify all evidence of that kind submitted.

The Committee must be organized to do the work before it. It will need a Chairman, a Vice-Chairman and a Secretary, besides committees and probably sub-committees to perform certain work. In one locality they have the following committees: 1. Executive or Planning Committee; 2. Survey Committee; 3. Building Committee; 4. Materials Committee; 5. Labor Committee; 6. Financial Committee.

The Planning Committee should consist of say seven members, at least one from each of the other Committees. It might be well to have representatives from each interest or group on the committee. The committee should outline the work along broad lines and co-ordinate the work of all other committees. It is neither to limit the scope of the work of any one of the other committees. Nor is it to limit the amount of work to be done unless such work is already being done by one of the committees. In the early stages it might be well for all publicity to originate from the Planning Committee.

The Survey Committee should determine the conditions as they exist in the District. The composition of this Committee should be such that the services of those who are acquainted with conditions in various sections of the city are included, and the membership should contain at least two persons who are experienced in analytical work. This Committee must receive the co-operation of all the Federal, Governmental, State or Municipal agencies in the District and make a report to the Planning Committee or to the full Committee before any constructive program is determined on. The findings of this Committee will, to a large extent, indicate the troubles and possible remedies.

The Committee should at once proceed to:

1. Analyze the local needs for construction and maintenance work of all kinds requiring funds, materials and labor. What are the normal building requirements to take care of growth of vicinity? How many homes, hotels, hospitals, office buildings are needed to make up for years of reduced building activities? What is the extent of housing shortage? What kind of houses are needed? How many buildings whose occupants must find other accommodations are destroyed each year by fire or demolished to make way for improvements? How many buildings need to be rehabilitated or replaced? What is extent of overcrowding? How many buildings and homes need new roofs, sanitary facilities, electric wiring, papering, painting etc.? How much city paving needs to be redone, how many bridges and other structures are in a dangerous condition, etc.? Has the city a well planned program of school building and rebuilding, of paving and repaving, and other public works over a period of years? Do the building codes and laws conform to the recommendations of the National Building Code Committee and the Board of Fire Underwriters? These and many other questions which will suggest themselves will need to be answered.

2. Learn how much of this work is actually ready to get under way.

3. Ascertain why any necessary or desirable work is being held back.

4. If it is being held back on account of inability to finance, because of the high cost of money or reluctance of financial interests to advance funds for construction, the Financial Committee should hold conferences with representatives of local banking and other interests from whom funds should be forthcoming and work out plans of relieving the situation. Money must be made available on reasonable terms and in reasonable volume and free from demands for bonuses and commissions of a questionable character.

5. If work is being delayed because of high building material costs the Material Committee should hold conferences with supply people to,

(a) Determine if current local prices properly reflect reductions in wholesale prices after allowing for increased freight rates and other advanced costs.

(b) If they do not the Committee should use every proper effort to bring local prices down to a correct level.

(Continued on page 292)



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Residences (33), Sixth, Seventh, Courtland and Annberry streets, $114,000. Architect, private plans. Owner, Max Chipin, 1024 Rockland street, Philadelphia. Brick, 2 stories, 28x23 feet and 18x31 feet, slag roof, pine and hardwood floors, hot water heat, electric light, tile work. Owner will build.

Residence (alts.), 217-19-21 Dawson street, Philadelphia, $2,000. Architect, private plans. Owner, C. O. Struse Estate, Cresson and Shurs Lane, Philadelphia. General alterations. Owners will build.

Store and Offices (alts. and add.), Orthodox and Frankford avenue. Architect, Edward Schoeppe, 315 South Fifteenth street. Owner, W. Thomas, on premises. Brick, 2 and 3 stories, 26x80 feet, slag roof, maple and composition floors, hot water heat, electric light, flush bulks. Architect taking bids due May 5th.

Theatre and Office Building, Southwest Corner Sixteenth and Market streets. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owners, Fox Film Corporation, 126 West Forty-sixth street, New York City. Brick, granite, cut stone, 12 stories, alternate 16 stories. Architect taking bids due May 6th.

Hotel, North side of Arch street, Fifteenth to Sixteenth street, Philadelphia. Architects, C. F. Neff and W. L. Plack, Twelfth and Locust streets. Owners, Philadelphia Hotel Co., Samuel J. Hall, care of architects. Brick, stone ,steel, concrete, limestone and terra cotta, 25 stories, will contain 2,500 rooms, stores on first floor, electric lighting, steam heat, tile, marble and terrazzo, elevators. Work contemplated.

Hotel and Stores, Southeast Corner Fifteenth and Chestnut streets, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets. Brick, steel, concrete, stone, terra cotta, limestone. Details undecided. Plans in progress.

Apartment House, Southeast Corner Forty-second and Walnut streets, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, J. B. Thompson, care of architect. Brick, concrete, steel, terra cotta and stone, size of lot 115x175 feet. Preliminary plans in progress.

Store and Office Building (remodeling), 1020 Chestnut street. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Howarth Co., on premises. General remodeling. Plans in progress.

Residences (9) (semi-detached), West Upsal street, Germantown, Philadelphia. Architect, Thomas B. Lippincott, 11 South Sixteenth street. Owner, Franklin C. Scheid, 4131 North Broad street. Tapestry brick, 3 stories, 16x52 feet, tile and slag roof, hardwood floors, hot water heat, electric lighting, tile work. Owner is taking sub-bids.

Store and Apartments (2), 211-13 South street. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Morris Feinberg, 213 South street, Philadelphia. Brick and steel, 2 stories, 28x153 feet, slag roof, hardwood floors, hollow tile, metal ceilings and bulks, iron work, store fixtures, hollow metal sash, rolled steel skylights, tile and marble, metal lath, steam heat, electric lighting. Plans in progress.

Club House, site not yet selected. Architect, M. Capobianca, 778 oSuth Seventh st., Philadelphia. Owners, Leonardo Di Vinci Club, 404 South Broad street. Details undecided. Work contemplated.

Store and Residence, 777 Germantown avenue. Architect, M. Capobianca, 778 South Seventh street, Philadelphia. Owner, G. Smith, 777 South Seventh street. Brick, 3 stories, 40x32 feet, slag roof, pine floors, metal lath, hot water heat, electric light, tile work. Plans in progress.

Arcade Building, Broad and Germantown avenue. Architect, W. Frisbey Smith, 1345 Arch street, Philadelphia. Owners, Beidler & Rinck, 2810 Germantown avenue. Henry P. Schneider, 3713 Old York road, is figuring.

Residences (alts.), 1310 South Fifty-third street, Philadelphia. Architect, Francis P. Canavan, 7032 Greenway avenue. Owner, A. R. Kinney, on premises. Carpentry, mill work, plumbing, painting, glazing, electric work. Architect taking bids.

Church (alts. and add.), Overbrook, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building. Owners, St. Paul's Memorial Church, Overbrook, Pa. Architects have received bids.

Residence, Arrott and Pilling streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Robert Lawson, 4665 Paul street, Philadelphia. Brick and stucco or stone, 2½ stories, 20x40 feet, slate roof, hot water heat, electric light, tile work. Architects have received bids.

Residence (alts. and add.), Overbrook, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Fred R. Rakestraw, Overbrook, Philadelphia. Stone, 2½ stories, 24x20 feet, slate roof, oak and pine floors, heating extension, electric light, metal lath, tile work, iron work. Architect taking bids due May 3rd at noon.

Residences (23), 3211 to 3253 North Marston street, $4,000 each. Architect, private plans. Owner, Morris L. Miller, Allegheny avenue and Marston street. Brick, 2 stories, 14x24 feet and 10x14 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (4), Southeast Corner Fifty-seventh and Woodland avenue, $16,000. Architect, private plans. Owners, Joseph Weiner & Potter, 524 Fernon street. Brick, 2 stories, 18x30 feet, (2) 16x63 feet and 18x54 feet, slag roof, hot water heat, electric light, oak and pine floors. Owners will build.

Residences (11), Winston street, South of Willow Grove avenue, $7,000 each. Architects, Walker & Carswell, Bryn Athyn, Pa. Owner, William L. Clausen, 8018 Germantown avenue. Hollow tile, brick and stucco, 3 stories, 21x37 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

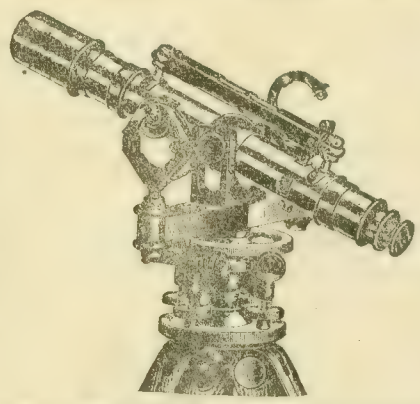
Armory and Recreation Building, Corinthian and Girard avenues. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, on premises. Plans in progress. Too early for details.

Girard Piers, Nos. 5 and 3, North Delaware River, Philadelphia. Owners, Bureau of Wharves, Docks and Ferries, Bourse, Philadelphia. Conneen Const. Co., 10 South Eighteenth street, Philadelphia, are taking sub-bids on brick work, cut stone, plastering, mill work, metal lath, due as soon as possible.

Residence, Oak Lane, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Ralph K. Meyerhoff, care of architects. Architects taking bids due May 4th. Stone, 2½ stories, 40x30 feet, slate roof, oak and pine floors, hot water heat, electric light, iron work.

Bungalow and (2) Residences; Bungalow, Millett street, West of Dittman street, and (2) Residences, Jackson street, East of Millett street, $12,000. Owner, W. W. Anstine, 1218 Filbert street, Philadelphia. Brick, frame, 1 and 2 stories, 24x33 feet, 12x6 feet and 15x36 feet, 14x6½ feet, slate and shingle roof. Owner will build.

Garage, 710 Delancy street, $2,000. Architect, private plans. Owner, Mrs. H. Gibson,



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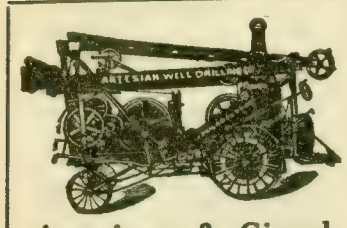
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709 Pine street, Philadelphia. Brick, 1 story, 21x75 feet, slag roof, cement floors, electric light. Owner will build.

Building, 454-458 North American street, Philadelphia. Architect, T. A. Stoutenbourgh, 1509 Champlost street. Owner, Bernard A. Pincus, care of architect. Brick, cut stone and steel, 3 stories, 48x100 feet, composition roof, composition and concrete floors, hollow tile, waterproofing, iron work, cork insulation, rolled steel sash and skylights, electric light. Architect has received bids.

Residence (alts.), Eleventh and Wyoming avenue, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street. Owner, name withheld. Cement work, brick work, painting, glazing, plate glass, electric lighting, tile and iron work. Architect has received bids.

Office Building, Eighth and Appletree streets, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street. Owner, Samuel Laveson, 237 North Sixth street, Philadelphia. Brick, steel, concrete and terra cotta. Architects taking bids due May 8th.

Stores and Residences (2), 2508-10 Lehigh avenue, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, George Mondschein, on premises. Brick, terra cotta and steel, carpentry, mill work, slag roof, cement work, plumbing, plastering, hardware (heating and lighting reserved). Architect has received bids.

Church, Tioga and F streets, Philadelphia. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, St. Philip's Methodist Episcopal Church, on premises. Stone and steel, 1 story, 103x59 feet, slate roof, maple floors, metal lath and ceilings, waterproofing, iron work, bond, vapor heat, electric light. Architect taking bids due May 9th.

Residences (16), Wynnefield, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, William F. Field, Fifty-fourth and Susquehanna avenue. Stone and brick, 3 stories, 16x48 feet, slate and slag and tin roof, hardwood floors, hot water heat, electric light, tile and marble work, garages, 20x22 feet. Plans in progress.

Bungalow, Roxborough, Philadelphia. Architect, private plans. Owner, J. H. Clevenger, 4328 Lauriston street, Roxborough. Stone, 1½ stories, 45x43 feet, crushed slate shingle roof, hardwood and pine floors, hot water heat, electric lighting. Owner has received bids.

Theatre (remodeling), 4817 North Broad street, Philadelphia. Architects, Andrew J. Sauer, Inc., Denckla Building, Philadelphia. Owners, Hunt's Theatres, Inc., 1220 Vine street, Philadelphia. General remodeling. Plans in progress.

Home Building, Broad and Ontario streets, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Masonic Home of Pennsylvania, on premises. Brick, concrete, steel and limestone, 3 stories and basement, 180x160 feet, size of entire lot, irregular shape building. Architects will be ready for bids in four weeks.

Residence (alts.), 322 South Sixteenth street, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Dr. M. V. Leos, care of architect. Offices and waiting rooms on first floor, general alterations to entire three- and four-story building, marble front, tile and marble work, electric lighting, heating extensions, hardwood floors. Will be ready for bids in one week.

Swimming Pool and Bath House, Cotton and Station streets. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Brick and steel, 1 story, 95x90 feet, slate and slag roof, cement floors, waterproofing and dampproofing, terra cotta, iron work, steel doors, hollow metal skylights. Low bidders: T. J. & J. R. Whelan, Seventeenth and Summer streets, $22,844; Monaghan & Losse, Inc., 3016 Chestnut street, $28,975. Electric, Walker & Kapler, 531 Chestnut street, $953. Plumbing, Bulman Brothers, Fifth and Cumberland streets, $4,366.

Welfare Building, Belfield Playground, Twenty-first and Chew streets. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare ,Bureau of Recreation, B. H. Warburton, Director, 595 City Hall, Philadelphia. Improvement, alterations, including plumbing, heating and electric work. Owners taking bids due May 4th at noon.

Church, Northeast Corner Sixtieth and Master streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Calvin Presbyterian Church, on premises. Stone and steel, 2 stories, 90x100 feet, slate roof, composition, pine and maple floors, electric light, plumbing, iron work (heating and ventilating reserved). Architects taking bids due May 4th.

Residences and Garages (8), Paschall avenue, West of Sixty-fourth street, $33,000. Architect, private plans. Owner, R. G. C. Young, 6228 Woodland avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (6), 5026-36 Saul street, Philadelphia, $6,000 each. Architect, private plans. Owners, George R. Osborne & Son, 5014 Saul street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (6), Walter street, West of Rising Sun avenue, $4,000 each. Architect, private plans. Owner, Michael Steven, 916 St. Vincent street, Philadelphia. Frame, 2 stories, 16x42 feet, shingle roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (5), Dyre street, West of Leiper street, $29,000. Architect, private plans. Owners, George R. Osborne & Son, 5014 Saul street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (4), East side American street, South of Olney avenue, $4,500 each. Architect, private plans. Owner, William Ingram, 5011 North Sixth street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (13) and Store and Residence (1), D street, South of Rockland street, $3,750 each. Architect, private plans. Owners, C. Kiely & Sons, 312 West Seymour street, Philadelphia. Brick, 2 stories, 15½x28 feet, 13x10 feet, slag roof, oak and pine floors, hot water heat, electric light. Owners will build.

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Residences (18), Warrington avenue, West of Fifty-second street, $5,000 each. Architect, private plans. Owner, S. H. Bailey Mercer, 4901 North Seventeenth street. Brick, 2 stories, 15x28 feet, 12½x13 feet, slag roof, oak and pine floors, hot water heat, tile work. Owner will build.

Stores and Apartments (2), Northeast Corner Fifty-third and Cedar avenue. Architect, J. S. Fuller, 1537 Chestnut street. Owner, Simon Kaplan, 243 South Sixty-second street. Brick, 3 stories, 29x50 feet, slag roof, hardwood and pine floors, metal lath, hot water heat, electric light, tile work, iron work, structural steel. Owner will build.

Residences (30), Louden street, West of D, $3,000 each. Architect, private plans. Owner, William B. Davenport, 1315 Colwyn street, Philadelphia. Brick, 2 stories, 15x28 feet, 11x10 feet, slag roof, hot water heat, electric light. Owner will build.

Shop, 3244 Germantown avenue, $2,600. Architect, private plans. Owner, J. Charles Yundt, 301 Tabor road, Philadelphia. Brick, 1 story, 16x84 feet, slag roof, yellow pine floors, electric lighting. Owner will build.

Dye House, South side Ontario street, West of Belgrade street, $7,500. Architect, private plans. Owner, John B. Connor, 602 East Indiana avenue, Philadelphia. Brick, 1 and 2 stories, 100x67 feet, 35x67 feet, slag roof, cement floors, electric light. Owner will build.

Moving Picture Theatre (add.), 1638 Point Breeze avenue, $8,000. Architect, Charles F. Schaef, 2203 South Twenty-fourth street, Philadelphia. Owner, H. K. Bader, Northeast Corner Broad and Arch streets. Brick, 1 story add., 18x100 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Residences (5), 6512-20 Woodland avenue, $5,500. Architect, private plans. Owner, A. Singer, Sixty-fifth and Woodland avenue, Philadelphia. Brick, 2 stories, 16x40 feet, 12x13 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (2), South side Disston street, West of Cottage street, $4,500 each. Architect, private plans. Owner, Roy H. Lippincott, 1306 West Ontario street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Garage, West side Ridge avenue, North of Lancaster avenue, $7,500. Architect, private plans. Owner, Walter Smith, 5293 Ridge avenue, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, hot water heat, electric light. Owner will build.

Residences (10), Broad street, South of Medary street, $46,000. Architect, private plans. Owners, Joseph T. & A. E. Janke, 6295 North Broad street. Brick, 2 stories, 16x74 feet and 16 feet 8 inches x 30 feet, 13 feet 8 inches x 44 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, metal lath. Owner will build.

Residences (6), McCallum street and Mt. Airy avenue. Architect, private plans. Owner, name withheld. Brick, 2½ stories, 20x30 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Samuel Harting & Son, 20 East Johnson street, taking sub-bids due May 5th.

Bakery (add.), Knorr street and Torresdale avenue, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, B. Nason, on premises. Brick, 1 story and basement, 30x30 feet, slag roof, concrete and pine floors, electric lighting. Architect will be ready for bids May 3rd.

Recreation Centre, Wakeling, Dyre, Rutland and Large streets. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Works, Bureau of Recreation, 216 City Hall, Philadelphia. Comfort buildings (2), brick, 1 story, 28x38 feet, Barrett roof, cement floors, grandstand, concrete, 157 feet long, running track, cut stone, bronze work, metal weather strips, bond, iron work, carpentry, mill work, painting, glazing, hardware ,grading, soil, gravel. Lowest bidders: George H. Evans, Inc., 109 North Thirteenth street, $51,058; Mitchell Brothers, 2125 Race street, $52,458.

Store (alts. and add.), 1629 Point Breeze avenue, $2,800. Architect, private plans. Owner, M. Lisse, 603 Wolf street. Brick, 2 stories, 10x10 feet, slag roof, pine floors, electric lighting. Owner will build.

Store (alts.), Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. Painting, glazing, plastering, hardware, plate glass, electric light, metal lath, hollow metal sash. Architect has received bids.

Garage, West side of Belfield avenue, above Courtland street. Architect, Amos W. Barnes, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, slow burning, 1 story, 94x180 feet, slag roof, cement floors, roof ventilators, hollow metal skylights. Plans in progress. Architect will be ready for bids in one week.

Apartments, rear of 6301 North Park avenue, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street. Owner, name withheld. Brick and cut stone, 3 stories and basement, 40x85 feet, slate and slag roof, mineral, pine and oak floors, tile and marble, kalamein doors, bond, iron work (heating, lighting and plumbing reserved). Revised plans in progress.

Manufactory (add.), Bodine, American and George streets. Architect, private plans. Owners, H. Swoboda & Son, Inc., 1027 North Bodine street. Brick and steel, 2 stories, 115x86 feet, and 58x75 feet, slag roof, cement, composition and maple floors, iron work, floor hardener ,rolled steel sash and skylights, fire doors. Owners taking bids due May 5th.

Residence, Northwest Corner Graver's Lane and Navahoe street, Philadelphia. Architect, H. L. Duhring, 1309 Locust street. Owner, M. L. Gehringer, care of architect. Stone, 2½ stories, 58x31 feet, slate roof, oak and pine floors, tile and iron work (heating, lighting and plumbing reserved). Architect taking bids due May 4th at noon.

Theatre and Office Building, Southwest Corner Sixteenth and Market streets. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owners, Fox Film Corporation, 126 West Forty-sixth street, New York City. Brick, granite, cut stone, 12 stories, alternate 16 stories, 176x120 feet, slag roof, cement and pine floors, elevators, waterproofing, leaded glass, bronze work, iron stairs and work, kalamein and hollow metal doors, theatre skylights, hollow metal sash, tile, marble and terrazzo, metal lath (structural steel, plumbing, heating and lighting reserved). Architect taking bids due May 6th.

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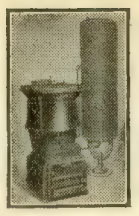
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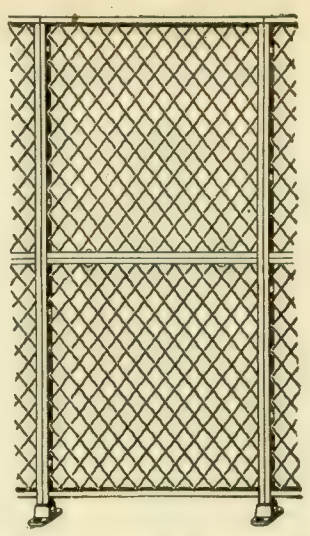
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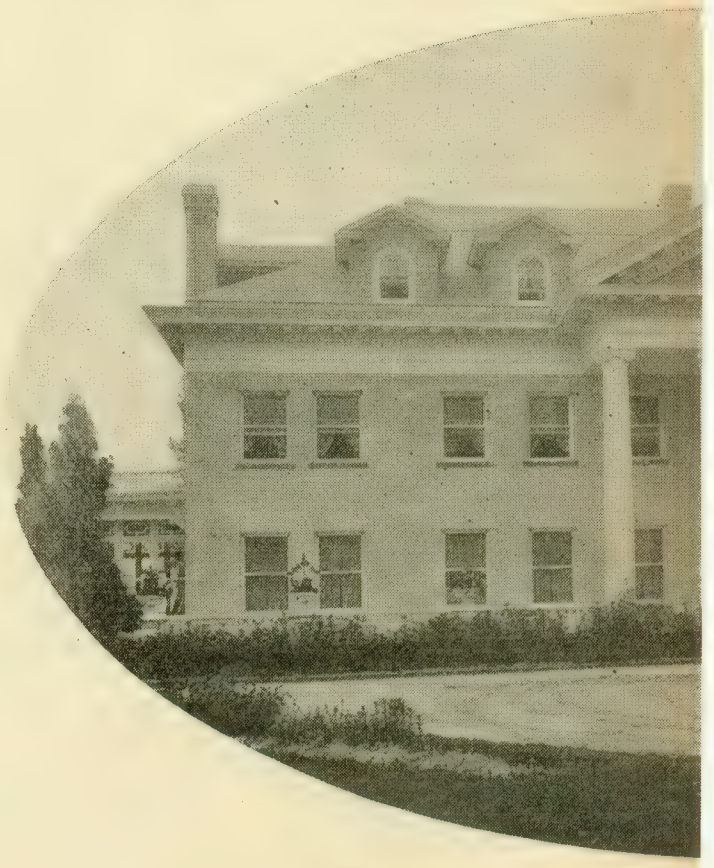
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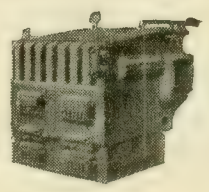
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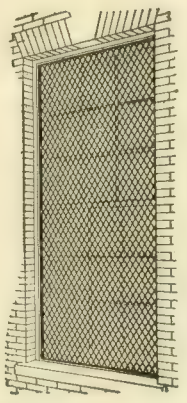
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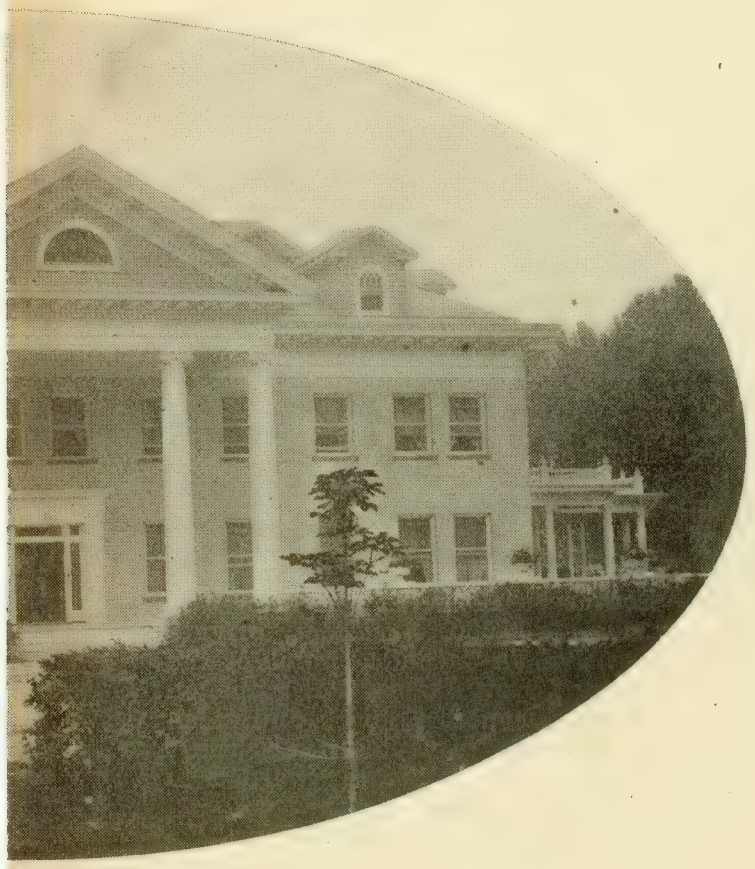
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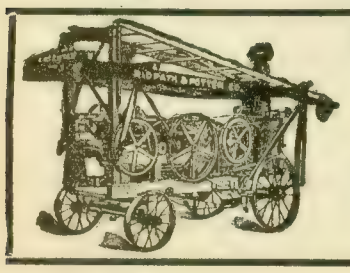
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Nurses' Home and Rebuilding of Greenhouse, Thirty-fourth and Pine streets, Philadelphia. Architect, P. H. Johnson, 1713 Sansom streets, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, C. L. Furbush, Director, 584 City Hall, Philadelphia. Brick, cut stone, steel and terra cotta, 5 stories, 39x46 feet, slag roof, granolithic and pine floors, hollow tile, metal lath, roof ventilators, metal weather strips, waterproofing, iron work and stairs, marble and terrazzo. Contract awarded to Mitchell Houseworth, Inc. ,2512 North Twenty-seventh street. Item 1, $56,987; 2, $1,347; 3, $2,393.

Two-Family Dwelling (add.), 4844 Frankford avenue, $5,000. Architect, private plans. Owner, David L. Woodberry, on premises. Brick, 2 stories, 16x11 feet, slag roof, oak and pine floors, hot water heat, electric light, tile and marble work, metal bulks, plate glass. Contract awarded to Frank E. Wallace, 1220 Chancellor street.

Residence (alts. and add.), 807 South Second street, $5,000. Architect, M. A. Bernhardt, 721 Walnut street, Philadelphia. Owner, I. M. Gerson, 815 South Second street. Brick, 1 story, 16x12 feet and 3x15 feet, slag roof, pine floors, hot water heat, electric lighting. Contract awarded to Nathan Epstein, 2221 North Franklin street.

Residences (4), $4,100 each, (1) $4,400, Peachim and Markle street, Philadelphia. Architect, private plans. Owner, C. H. Maurer, 4345 Main street, Philadelphia. Brick, 2 stories, 15x27 feet, 12x8 feet, and 2 stories, 15x35 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to Brown Const. Co., 105 Levering street.

Residence, Williams avenue, West of Upsal street, $3,800. Architect, private plans. Owner, George B. Cramer, Forrest avenue, Mt. Airy, Philadelphia. Brick, 2 stories, 18x28 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to W. J. Krewson, Forrest avenue and Johnson street, Philadelphia.

Store and Residence (alts. and add.), 710 North Twenty-third street, $3,500. Architect, private plans. Owner, L. Lipkin, on premises. Brick, 3 stories, 15x12 feet, slag roof, pine floors, electric. Contract awarded to Morris Yacknitz, 1202 North Seventh street.

River Wall, Fairmount Park, Philadelphia. Owners, Park Commissioners, 127 City Hall, Philadelphia. Concrete and stone. Contract awarded to Seeds & Derham, 6314 Wissahickon avenue.

Comfort Building, Cobb's Creek Park, Philadelphia. Owners, Park Commissioners, 127 City Hall, Philadelphia. Brick, 1 story. Contract awarded to Farrell-Roth Const. Co., 122 Diamond street, $5,000.

Sunday School (alts.), Germantown and Mt. Pleasant avenues. Architect, private plans. Owners, Mt. Airy Presbyterian Church, care of Rev. John Calhoun, 33 East Mt. Pleasant avenue, Germantown. Stone, brick and terra cotta, 2 stories, 53x69 feet, slag roof, pine, composition, cement and linoleum floors, metal lath, dampproofing, steam heat, electric light. Contract awarded to T. C. Trafford, 1613 Sansom street.

Residence, East side of Sixth, North of Chelten avenue, $9,500. Architect, private plans. Owner, William M. Ferguson, 1210 Spring Garden street. Brick, 3 stories, 26x30 feet, 1 story, 14x8 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work. Contract awarded to William J. Erwin, 3532 North Fifteenth street.

Warehouse, 412-16 South Delaware avenue, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Pennsylvania Warehousing Co., on premises. Brick and steel, 8 stories, 78x120 feet, slag roof, concrete and wood block floors, waterproong, iron work, floor hardener, bond, hollow metal doors, copper skylights, rolled steel sash (heating, elevators, lighting and plumbing reserved). Contract awarded to Turner Const. Co., 1713 Sansom street.

Stadium, Franklin Field, Thirty-fourth and Spruce streets, $600,000. Architects, Day & Klauder, 1416 Chestnut street, Philadelphia. Engineers, Gavin Haddon, 233 Broadway, New York City, and Horace T. Campion, Otis Building, Philadelphia. Owners, University of Pennsylvania, Philadelphia. Concrete, steel, brick and cut stone, surrounding 870x390 feet, canvas roof, hollow tile, waterproofing, marble and terrazzo, hollow metal sash, bond, iron work. Contract awarded to Turner Const. Co., 1713 Sansom street.

Office Building, Seventh and Chestnut streets, Philadelphia. Architects, Magaziner & Eberhard, 703 Chestnut street, Philadelphia. Owners, Washington Square Realty Co., care of architects. Brick, granite and steel, 6 stories and basement, 135x50 feet, slag roof, cement and maple floors, metal lath, elevators, waterproofing, cement work, terra cotta, iron stairs, iron work, bond, copper skylights, fire doors, tile, marble and terrazzo work. Contract awarded to Turner Const. Co., 1713 Sansom street.

Apartments (alts. and add.), 2025 North Twenty-second street, $7,600. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, George McElroy, on premises. Brick, 1 story ,13½x16 feet, slag roof, hardwood and pine floors, cement work, plastering, hot water heat, electric light, tile work, sheet metal work. Contract awarded to A. S. Shafer, 2122 South Nineteenth street.

Church, Southeast Corner Fifty-sixth and Chester avenue, $200,000. Architect, private plans. Owners, Roman Catholic Church of the Blessed Sacrament, Rev. James T. Higgins, on premises. Granite, concrete, brick and steel, slate roof, steam heating, electric lighting, tile and marble work. Contract awarded to M. Melody & Son, 1322 Race street.

Residences (16) (alts. and add.), Uber, between Ludlow and Ranstead streets, Philadelphia. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owner, David Coons, Hotel Lorraine, Philadelphia. Brick, cut stone, carpentry, mill work, plastering, painting, glazing, slag roof (heating, lighting and plumbing reserved). Contract awarded to Frank G. Stewart, 1619 Sansom street.

Factory, Schillers street, between Melvale and Allen streets. Architects, Ritter & Shay, North American Building. Owners, Nustone Products Corporation, 3450 Richmond street. Brick and steel, 1 story, 132x140 feet, steam heat, electric light, composition roof, cement floors, hollow tile, roof ventilators, terra cotta, iron work, floor hardener, bond, nollow metal sash, rolled steel skylights, electric lighting. Contract awarded to J. M. Yardley, 1716 Sansom street.

Building (alts. and add.), 630-32 Race street, Philadelphia. Architect, E. A. Stopper, 1507 Arch street, Philadelphia. Owner, William Frizlen, 145 North Seventh street,

Philadelphia. Steel and brick, 2 and 3 stories, slag roof, concrete and pine floors, steam heat, electric light, sheet metal work, rolled steel sash, hollow tile, plumbing. Contract awarded to W. S. Huntsberger, 145 North Seventh street.

Residence and Store (add. and alts.), 3720 North Broad street, $3,600. Architect, private plans. Owner, D. Schorsch, Seventeenth and Erie avenue, Philadelphia. Brick, 1 story, 18x9 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Charles H. Shuster, 1950 North Watts street.

Residences (add. and alts.), 2826-28 West York street, $3,000. Architect, private plans. Owner, Samuel Goss, 2809 West York street, Philadelphia. Brick, 1 and 2 stories, 6x27 feet, 8x26 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to Joseph Schlichtman, 2334 North Thirtieth street.

Garage and Shop, Southeast Corner Wakefield and Collum streets, $2,725. Architect, private plans. Owner, August Rieffel, 43 East Garfield street, Philadelphia. Brick, 2 stories, 34x20 feet, slag roof, cement floors. Contract awarded to Charles D. Land, Twenty-eighth and Cambria streets.

Store (add.), Twenty-sixth and Titan streets, $2,100. Architect, private plans. Owner, Hugh Devlin, 1504 Potter street. Brick, 1 story, 11x14½ feet, concrete roof, yellow pine floors. Contract awarded to H. F. Pinkeclacker, 1612 McKean street.

esidence, South side Lyons avenue, West of Seventy-eighth street, $4,500. Architect, private plans. Owner, B. Simpson, 935 Madison avenue, Philadelphia. Brick, 2 stories, 16x38x8 feet, slag roof, oak and yellow pine floors, hot air heat, electric light. Contract awarded to George S. Roe, 6949 Saybrook avenue.

Residence, 7809-11 Ardleigh street, $6,500. Architect, private plans. Owner, William H. Taylor, 3121 North Taylor street, Philadelphia. Brick, 2 stories, 31½x40½ feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Paul Brosz, 2511 West Huntingdon street.

Building, 334 North American street, $2,000. Owner, Martin Miller, 335 North American street, Philadelphia. Fire repairs, general alterations. Contract awarded to Albert Zellfelder, 151 South Broad street.

Residences, Northwest Corner Chew and Gorgas streets, $12,000. Architect, private plans. Owner, Charles A. Boergeois, Sixteenth and Spring Garden streets. Stone, 3 stories, 37x37 feet, 19x23 feet, slate roof, oak and pine floors, hot water heat, electric light. Contract awarded to A. S. Tourison, Jr., 7014 Boyer street.

Store and Storage Building, Northwest Corner Ninth and Federal streets, $3,900. Architect, private plans. Owner, J. Tirro, 1182 South Ninth street, Philadelphia. Brick, 3 stories, 14x35 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to A. Cipriano, 937 Federal street, Philadelphia.

Garage, Marshall, South of Oxford street, $3,200. Architect, private plans. Owner, Ingraham Mfg. Co., on premises. Brick, 1 story, 26x74 feet, slag roof, cement floors, electric lighting, hot water heat. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Stores (6), Kensington avenue and Hilton street, Philadelphia. Architect, private plans. Owners, Charles Devlin & Son, on premises. Brick and stone, 1 story, 50x92 feet, slag roof, pine floors, electric light, hot water heat. Contract awarded to Harry Gill, Jr., 2514 Germantown avenue.

Garage (add.), 3909 Old York Road. Architect, private plans. Owner, George W. Lord Co., premises. Brick, 1 story, 40x80 feet, slag

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roof, electric light, cement floors. Contract awarded to Harry Gill, Jr., 2514 Germantown avenue.

Country Road Improving. Contracts awarded. Cottage street, Tyson to Princeton, and Gillespie street, Tyson to Princeton, A. J. Henderson, Chew and Price streets, Philadelphia. Magee street, Rising Sun to Oakley street, $2,107.75, Curtis Brothers, Longshore street, Tacony. Mermaid Lane, McCallum to Cherokee, $5,392.40, Thomas L. Flanagan, 531 East Girard avenue, Philadelphia.

Redressed Granite Block Repaving, Ridge avenue, Broad to Fairmount, $1,627.69. Contract awarded to John Meehan, 916 West Dakota street. Front street, Allegheny to Tioga, $21,571.50. Green Lane, Silverwood to Manayunk and Rector street. Main to 140 feet West of Tower, $20,851.55. Thomas L. Flanagan, 531 East Girard avenue.

Grading, Paving and Repaving, York road, Broad street, north to 75 feet north of Spencer street, $40,809. Barber Asphalt Paving Co., Land Title Building, Philadelphia.

Improvement of Delaware avenue, from Laurel street to Manderson street, $21,566.98. John Meehan, 916 West Dakota street.

Building (add.), 3436-38 Market street, $7,500. Architect, private plans. Owners, Hurlock Brothers Co., on premises. Brick, 3 stories, 39x41½ feet, slag roof, yellow pine floors. Contract awarded to Frank G. English & Son, 1608 North Carlisle.

Building (alts. and add.), 401-03 South Front street, $6,500. Architect, private plans. Owner, A. Rabinowitz, 401 South Front street, Philadelphia. Brick, 2 stories, 16x21 feet, slag roof, oak and pine floors. Contract awarded to Silverman Brothers, 932 Pine street, Philadelphia.

Residence (add. and alts.), 3642 North Broad street, $6,000. Owner, Dr. A. A. Gracey, on premises. Brick, 1 story, 15½x16 feet, slag roof, oak, pine floors, tile work. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Residence, Gates street and Ridge avenue, $15,000. Architect, private plans. Owner, Ernest Barros, 480 Martin street. Brick, 2 stories, 28x42 feet and 28x13 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to C. M. Swartley & Son, 6835 Ridge avenue.

Residence, Shawmont and Ridge avenue, Philadelphia, $6,500. Architect, private plans. Owner, J. R. Christy, Shawmont avenue, Philadelphia. Brick, 2 stories, 41x20 feet, slag roof, hardwood and pine floors, electric light, hot water heat. Contract awarded to George M. Robinson, 632 Summit avenue.

Laundry Building (alts. and add.), Forty-sixth and Ludlow streets, $9,500. Architects, Andrew J. Sauer Co., Denckla Building. Owners, Quaker City Laundry, premises. Brick and steel, 2 stories, 16x32 feet, slag roof, galvanized iron, steam heat, electric light. Contract awarded to Conneen Const. Co., 10 South Eighteenth street.

Sherwood Exchange (alts. and add.), Fifty-seventh and Chestnut streets. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., 1700 Arch street. Brick, cut stone and steel, 3 stories, basement, 125x43 feet, slag roof, concrete floors, metal lath, waterproofing, bond, hollow metal sash, tile and marble work, steam heat. Contract awarded to John N. Gill Const. Co., Otis Building.

Building (alts. and add.), 4140 Market street, Philadelphia, $2,000. Architect, private plans. Owner, George Dobson, on premises. Brick, first and third floor add., 20x26 feet, 16x26 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Charles A. Patterson, 3812 Sansom street.

Isolation Ward Building, Germantown avenue and Sedgwick street. Architect, P. H. Merz, Pennsylvania Building. Owners, Lutheran Orphans' Home and Asylum, premises. Brick and cut stone, 1½ stories, 53x32 feet, slate roof, cement, composition and pine floors, metal lath, iron work, bond, tile and marble, steam heat, electric light. Contract awarded to John Schnabel, Inc., Denckla Building.

Stoker and Blower Foundations, 1136 North American street. Architect, W. E. S. Dyer, Land Title Building. Owners, Bloch Go-Cart Co., premises. Brick, steel, 1 story, 40x24 feet and 12x14 feet, Carey roof, cement floors, iron work, floor hardener, bond, rolled steel sash. Contract awarded to John Schnabel, Inc., Denckla Building.

Girard Piers, Nos. 5 and 3, North Delaware River, Philadelphia. Owners, Bureau of Wharves, Docks and Ferries, Bourse, Philadelphia. Brick, limestone and steel, 529x185 feet and 534x185 feet, slag roof, asphalt roof, cement, asphalt block, granolithic finish, hollow tile, metal lath, truck and cargo elevators, safety treads, dampproofing, iron work, hollow metal sash and doors, rolled steel skylights. Contract awarded to Triest Cont. Co., 126 East Fifty-ninth street, New York City, No. 1-A, $1,812,218; No. 1-B, $1,845,548.

Retaining Wall, West side Fiftieth street, South of Springfield avenue, $6,000. Owners, Crean Brothers, Eighteenth and Oregon avenue. Concrete retaining wall. Contract awarded to Pennsylvania Eng. & Const. Co., Real Estate Trust Building.

Residence (2-family) (alts. and add.), 1938 Diamond street, $3,500. Architect, private plans. Owner, George W. Campbell, on premises. Brick, 3 stories, 11x17 feet, slag roof, oak and pine floors. Contract awarded to Campbell Const. Co., 1204 North Eighth street.

Store (add.), 4403 Frankford avenue, Philadelphia, $8,000. Architect, private plans. Owner, Henry H. Breyer, Northwest Corner Eighth and Cumberland streets. Brick, 1 story, 18x40 feet, 51x15 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to William F. Koelle & Co., Twenty-sixth and Oxford streets.

Club House (alts. and add.), 1422 North Broad street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Mercantile Club, on premises. Brick, fourth and fifth floor addition, 84x28 feet, slag roof, composition and pine floors, roof ventilators, metal weather strip and ceilings, terra cotta, dampproong, iron work, bond, metal lath, heating and lighting extensions. Contract awarded to Conneen Const. Co., 10 South Eighteenth street.

Store and Office Building (alts.), 1516 Chestnut street, $41,200. Architect, Frank E. Hahn, 1112 Chestnut street. Owner, George S. Graham, West End Trust Building. New front, brick, cut stone, artificial stone and steel, slag roof, maple floors, metal lath, plastering, ornamental plastering, cold water painting, roof ventilators, leaded glass, waterproofing, iron work, metal bulks, bond, kalamein doors, hollow metal sash and skylights, tile and marble work (heat, electric work, elevators and plumbing reserved). Contract awarded to Frank G. English, 1610 North Carlisle street.

Garage, 3326 Rorer street, Philadelphia, $2,500. Architect, private plans. Owner, Frank J. Miller, B and Allegheny avenue, Philadelphia. Brick, 1 story, 80x27 feet, slag roof, oak and pine floors. Contract awarded to D. J. Britt, 822 East Tioga street.

Residence and Store (alts.), 126 South Fifty-second street, $2,400. Architect, private plans. Owner, Michael Taub, Northwest corner Fifty-fifth and Ludlow streets, Philadelphia. General interior alterations. Contract awarded to Seeds & Steinmetz, 551 South Yewdall street.

Residence, East side Twelfth street, South of Sixty-fifth street, $9,150. Architect, private plans. Owner, Fred Werner, 632 West Erie avenue, Philadelphia. Brick, 3 stories, 29x42 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Harold S. Morrison, 515 West Erie avenue.

Residences (2), Lawndale avenue, South of Cottman street, $4,000 each. Architect, private plans. Owner, Howard Livezey, Cottman street, Frankford, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and yellow pine floors, hot air heat, electric light. Contract awarded to Jacob Gaertner, 7225 Oxford avenue.

Grading, City of Philadelphia, Bureau of Highways, Department of Public Works, Philadelphia, Frank H. Caven, Director. The following contracts awarded:

American street, Luzerne to Hunting Park avenue, and Luzerne street, Second to Rising Sun avenue, $20,362.72. Thomas L. Flanagan, 531 East Girard avenue, Philadelphia.

Buise avenue, Sixty-ninth to Seventieth street, and Holbrook avenue, Elmwood to Buist avenue, $752.85. R. B. Wenner, 3106 Midvale avenue, Philadelphia.

Edmund street, Cottman to Bleigh. Thomas L. Flanagan, 531 East Girard avenue, 1,769.61.

Howard street, Lippincott to Clearfield. Thomas L. Flanagan, 531 East Girard avenue, $89.25.

Percy street, Emily street to Snyder avenue. Alex McElhenney, 1230 South Twenty-eighth street, $192.00.

Pittville street, Ogontz to Nineteenth. Thomas L. Flanagan, 531 East Girard avenue, $3,713.82.

Turner street, Fifty-fourth to Columbia. R. B. Wenner, 3106 Midvale avenue, $1,316.70.

Asphalt Paving. Contracts awarded: A street, Tabor road to Fisher, $2,381.49. B street, Allegheny avenue to Westmoreland street, $7,464.91. Courtland street, Front to Ella street, $7,964.88. Folsom street, Forty-ninth to Fiftieth street, $2,953.68. Hawthorne street, Dyre to Pratt street, $2,271.43. Kip street, Tioga to Venango street, $2,676.99.

Madison street, Cedar to Chatham street, $1,380.03. Mentor street, Second to Third street, $5,066.25. Olney street, Mascher to Front street, $6,854.86. Pechin street, Ripka to Leverington street, $2,782. Pentridge street, Fifty-first to Fifty-second street, $2,322.24. Pentridge street, Fifty-fifth to Fifty-sixth street, and Ridgewood street, Fifty-fifth to Fifty-sixth street, $5,544.75. Pine street, Forty-eighth to Forty-ninth street, $5,202.44. Third street, Wyoming avenue to Roosevelt Boulevard, $6,672.89. Sixth street, Rockland to Ruscomb street, $5,214.01. Seventeenth street, Lindley to Fisher's Lane, $2,158.23. Seventy-second street, Greenway to Yocum street, $3,048.79. Contracts awarded to Barber Asphalt Paving Co., Land Title Building, Philadelphia.

Factory, Fifty-fourth and Gray's avenue, Philadelphia, $50,000. Architects, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, Shingle Leather Co., 315 Vine street, Philadelphia. Brick and steel, 1 story, 120x195 feet, slag roof, concrete floors, rolled steel sash, iron work (heat and light reserved). Contract awarded to Bowden Const. Co., 1935 Chestnut street.

Residences (2), 1212-14 Wakeling street, Philadelphia, $5,000 each. Architect, private plans. Owner, Bertha S. Wilbraham, 1228 Wakeling street. Brick, 2 stories, 16x54 feet, slag roof, hardwood and pine floors, hot water heat, electric lighting. Contract awarded to Edward W. Taylor, Oxford and Wakeling streets.

Pennsylvania Construction News

Residences (6), State street, Harrisburg, Pa., $80,000. Architect, private plans. Owner, Christian L. Long, 925 North Front street, Harrisburg, Pa. Brick, 3 stories, 29x44 feet, slate roof, hardwood floors, tile work, electric lighting. Owner will build.

School, between Glenolden and Norwood, Pa. Architects, C. W. Brazer and A. B. Dickhut, Chester, Pa. Owners, School Board of Ridley Park Township, Pa. Brick, cut stone, concrete and steel, 2 stories, 133x75 feet, slag roof, cement, oak, pine and maple floors, metal ceilings, dampproofing, hollow terra cotta tile, iron work, bond, metal lath (heating, lighting and plumbing reserved). Architects taking bids due May 16th.

Residence, Front street, Harrisburg, Pa., $25,000. Architect, not yet selected. Owner, Thomas Bogar, 132 North Queen street, Lancaster, Pa. Architect selected.

Hotel, Fourth and Walnut streets, Harrisburg, Pa., $1,000,000. Architect, not selected. Owners, Hotel Company of Pennsylvania, Fred Aldinger, Twenty-first and Hillside streets, Harrisburg, Pa. Brick, steel, fireproof, 12 stories, 300 rooms, steam heat, electric light, metal lath, tile and marble work, elevators. Work contemplated.

County Hospital (add.), Harrisburg, Pa., $10,000. Engineer, C. M. Hershey, Harrisburg, Pa. Owners, Board of County Commissioners, Harrisburg, Pa. Brick, 3 stories, 40x60 feet. Plans in progress.

Residence, Second street, Harrisburg, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Roy Shriner, Harrisburg, Pa. Brick, 2½ stories, 30x41 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath. Plans in progress.

Residence, Lebanon, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, E. A. Tackler, Elizabethtown, Pa. Brick and stone, 2½ stories, 40x65 feet, red tile roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for bids.

Bank, Boiling Springs, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Boiling Springs State Bank, care of architect. Limestone, 2 stories, 30x40 feet, composition roof and floors, steam heat, electric light, tile and marble work, metal lath, bank fixtures. Architects ready for bids.

Association Building, Windber, Somerset County, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Italian Little Music and Beneficial Association, Windber, Pa. Brick, 3 stories, 35x110 feet. Preliminary plans in progress.

Church, Sunday School and Parsonage, East Stroudsburg, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, East Stroudsburg Methodist Episcopal Church, Rev. J. E. Grauley, East Stroudsburg ,Pa. Brick, steel, reinforced concrete, 1 story and basement, 52x100 feet, slate and Carey roof, hardwood floors, vapor heat, electric light. Owners taking bids due May 8th at 6 P. M.

Building, Richland, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Neptune Fire Co., J. A. Fisher, secretary, Richland, Pa. Brick, 2 stories, 50x125 feet, asbestos slate roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath. Architects taking bids due May 4th.

Church, Lansdale, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, First Baptist Church, Lansdale, Pa. Stone, 1 story. Plans in progress. Too early for details.

Church (completion), Northumberland, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Northumberland Church, Northumberland, Pa. Stone, 1 story, 60x100 feet, completion of interior, consisting of maple floors, plastering, painting, decorations, steam heating, electric work, plumbing. Owners are taking bids.

Church, Mt. Carmel, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Mt. Carmel, Pa. Stone, 1 story, 50x110 feet, slate roof, steam heat. Plans in progress. Architect ready for bids in three weeks.

Home, Paradise, Adams County, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street. Owners, Diocese of Harrisburg (Paradise Protectorate for Boys), care of Rt. Rev. Bishop Philip J. McDevitt, Harrisburg, Pa. Brick, 2 stories and basement, 45x110 feet, slate roof. Plans in progress. Will be ready for bids in three weeks.

Residences (3), Lansdowne, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Norman Realty Co., National Bank Building, Lansdowne. Frame and stucco, 2½ stories, 24x34 feet, frame and stucco, 2½ stories (2), 22x32 feet, shingle roof, oak and pine floors, vapor heat, electric light, tile, metal lath, iron work. Architect has received bids.

Residence, Wormleysberg, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Edward Wanbaugh, Wormleysberg, Pa. Brick, frame and stucco, 2½ stories ,24x31 feet, shingle roof, pine floors, hot water heat, electric light. Owner is ready for bids.

Residence, Cynwyd, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street. Owner, Charles L. Campbell, Cynwyd, Pa. Hollow tile and stucco, 2½ stories, 55x27 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile and marble, iron work. Architect taking bids due May 3rd.

Residence, Rutledge, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, Edward B. Joseph, care of architect. Frame, 25x38 feet, shingle roof, hot water heat, electric light, hardwood floors, plumbing, tile and marble work. Architect ready for bids.

Bungalow, Swarthmore, Pa. Architect, Charles M. Wells, Rutledge, Pa. Stone, 34x50 feet, shingle roof, hot water heat, electric light, hardwood floors, tile and marble work. Architect ready for bids.

Residence, Abington, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, James P. Paxton, 5542 Malcolm street, Philadelphia. Frame and stucco, 2 stories, 40x44 feet, Barrett shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Architect ready for bids.

Residence, Rutledge, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, C. S. Walters, care of architect. Frame, 2 stories. Architect has received bids.

Church, Pembrook, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, United Brethren Church, Rev. Schaeffer, Pembrook, Pa. Stone, 1 story and basement, 60x90 feet, slate roof, pine floors, steam heat, electric light, tile work, metal lath. Architect taking bids due May 3rd.

Church, Shippensburg, Pa. Architect, R. R. Markley, 9 North Market street, Harrisburg, Pa. Owners, Messiah United Brethren Church, J. E. Gipple, chairman, on premises. Brick, steel, 1 story and basement, 85x172 feet, slate roof, hardwood floors, steam heat, electric light, hollow tile, metal lath, tile work, skylights, roof ventilators. Owners taking bids due May 15th.

Apartment (alts. and add.), Lancaster, Pa. Architect, F. J. Evarts, 112 East King street, Lancaster, Pa. Owner, Miss Elizabeth Davis, Lancaster, Pa. Brick, third story add., 113x20 feet, Barrett roof, hardwood floors, hot water heat, electric light, tile work. Architect has received bids.

Residence, Rydal, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owner, John N. Frazier, Rydal, Pa. Hollow tile, stucco and steel, 2½ stories (alternate for stone with slate roof), 58x21 feet, wing 17x34 feet, shingle roof, oak and pine floors, metal lath, tile and marble, bond, iron work (heating and lighting reserved). Architects have received bids.

Residence, Hummelstown, Pa. A rchitect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Ramon Rupert, on premises. Limestone, 2 stories, 29x43 feet, slate roof, hardwood floors, electric lighting (heating reserved). Owner will sublet.

Residences (10), Lancaster, Pa. Architect, M. R. Evans, 10½ Orange street, Lancaster, Pa. Owner, Bowman Kendig, North Queen street, Lancaster, Pa. Brick and stucco, 2½ stories, 24x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner has received bids.

Stores, Apartments and Office (alts.), Shenandoah, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Morris Oppenheimer, care of architect. General renovation of interior, 5 stories, composition, asbestos and tile roof, maple floors, hollow tile, stucco, metal lath, steel ceilings, tile and marble, electric lighting, steam heating. Architect taking bids due May 4th.

Synagogue, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, B'Nai Israel Congregation, care of architect. Stone, brick and steel, 1 story, 30x70 feet, slate roof, steam heat, electric lighting, hardwood floors. Architect taking bids due May 6th.

Inn (alts.) to Apartments, Bryn Mawr, Pa. Architects, Wallace & Warner, 1032 Walnut street. Owners, Martin Estate, care of Bryn Mawr Trust Co., Bryn Mawr, Pa. Stone, general renovation. Architect taking bids.

Bank Building (alts. and add.), Stroudsburg, Pa. Architects, Edward H. Davis and George M. D. Lewis, Union Bank Building, Scranton, Pa. Owners, Stroudsburg National

Bank, care of architects. Brick, cut stone, limestone and steel, 2 stories, 95x25 feet, slag roof, cement and pine floors, metal ceilings, dampproofing, iron work, hollow metal sash and doors, metal lath, tile and marble work (heating, lighting and plumbing reserved). Architects have received bids.

Residence, Cynwyd, Pa. Architect, private plans. Owner, Irvin Hall, Cynwyd, Pa. Hollow tile and stucco, 2½ stories, 30x50 feet, wood shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Bryn Mawr, Pa. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, Miss Bertha Black, Bryn Mawr, Pa. Stone and stucco, 2½ stories, 49x28 feet and 19x38 feet, slate roof, oak and pine floors, elevator, hot water heat, electric light. Architect taking bids due May 8th.

Bank, Boiling Springs, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Boiling Springs State Bank, care of architects. Limestone, 2 stories, 30x40 feet, composition floors and roof, steam heat, electric light, tile and marble work, metal lath, bank fixtures. Architects taking bids.

High School, Auditorium, Gymnasium and Cafeteria, Scranton, Pa. Architect, G. W. Edson, Connell Building, Scranton, Pa. Owners, Scranton School District, care of Mr. Hughes, Scranton, Pa. Lowest bids submitted by Sinclair & Griggs, Medical Arts Building, Philadelphia, $646,800; Wark & Co., 231 S. Broad street, Philadelphia, $694.771.

Community House, Trevose, Bucks County, Pa. Architect, Otto G. Herold, Glenside, Pa. Owners, Trevose Imp. Association, Trevose, Pa. Stone and steel, 1 story, 87x43 feet, slate, shingle roof, maple floors, metal lath, iron work (heating, light and plumbing reserved). Architect taking bids due May 5th.

Residence (alts.), Morris Heights, Pa. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Edw. Roberts, on premises. General interior alterations. Owner is subletting.

Residence, Penfield, Pa. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, J. B. Shindler, care of architect. Frame, 2 stories, 26x40 feet, asbestos roof, hardwood floors, hot water heat, electric light. Plans in progress.

Residence, Ardmore avenue, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street. Owner, Dr. C. H. Arnold, Ardmore, Pa. Hollow brick and stucco, 2½ stories, 43x26 feet, shingle roof, hardwood floors, hot water heat, electric light. Architect has received bids.

High School, Jenkintown, Pa., $225,000. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, School Board of Jenkintown, care of Dr. C. S. Saylor, president, Jenkintown, Pa. Preliminary plans in progress. Too early for details.

Bank Building (alts. and add.), Conshohocken, Pa. Architect, G. Edwin Brumbaugh, Real Estate Estate Trust Building, Philadelphia. Owner, First National Bank, care of C. Horace Jones, President, Conshohocken, Pa. Brick, 1 story. 35x61 feet. Plans in progress.

Residence, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, Fritz Quittner, Glenside, Pa. Brick, 2½ stories, 36x86 feet, slate roof, hardwood floors, vapor heat, electric lighting, tile and marble work. Plans in progress. Architects will be ready for bids in one week.

Residence and Garage, Swarthmore, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 50x25 feet and 18x20 feet, shingle roof, hardwood floors, hot air heat, electric lighting, tile work, cement work. Architect taking bids due May 12th.

Twin Residence and Garage, Cynwyd, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, Gwynn T. Sheppard, care of architect. Hollow tile and plaster, 2½ stories, 54x30 feet, and 1½ stories, 39x20 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, bond. Architect taking bids due May 5th.

Store and Office, Adams street, Scranton, Pa. Architects, E. H. Davis and G. M. Lewis, Union National Bank Building, Scranton, Pa. Owner, Walter Rehrig, care of architect. Brick, stone, reinforced concrete, 5 stories, 100x41 feet, slag roof, concrete and hardwood floors, electric light, metal lath, tile, terrazzo and copper work. Revised plans in progress.

High School, Freeland, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Freeland School Board, R. Fairchilds, secretary, Freeland, Pa. Brick, 2 stories and basement, 150x100 feet, slag roof, hardwood floors, electric light, hollow tile, metal lath, tile work, rolled steel sash, skylight, roof ventilators. Plans in progress.

School, Foster Township, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Foster Township School Board, care of Secretary Kirshki, on premises. Frame, 1 story, 5 rooms, slag roof, hardwood floors, electric light. Plans in progress.

Residence, location withheld, $25,000. Architect, T. Atherton, Coal Exchange Building, Wilkes-Barre, Pa. Owner, P. C. McLean, Dorranceton, Pa. Stucco and hollow tile, 2 stories, 60x30 feet, hardwood floors, vapor heating, electric lighting, tile work. Architect taking bids due May 6th.

Store and Apartment, Stroudsburg, Pa. Architects, E. H. Davis and G. M. Lewis, Union National Bank Building, Scranton, Pa. Owner, R. R. J. Wallace, on premises. Brick, 2 stories, 40x80 feet, slag roof, hardwood floors, electric light, tile work, copper work. Architect taking bids.

Residence and Garage, Dorranceton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Dwight & Fisher, care of architect. Shingle, 2½ stories ,and 1 story, 26x48 feet and 18x20 feet, shingle roof, hardwood floors, steam heat, electric light, metal lath. Plans in progress.

Residence, Riverside Drive, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Jacob Stakirlsky, care of architect. Brick, 2½ stories, 36x42 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Architect taking bids due May 3rd.

Warehouse, Bennett street, Wilkes-Barre, Pa. Architect, H. A. Maier, Wilkes-Barre, Pa. Owners, Anthracite Supply Co., Ralph Israel, 75 South Penn street, Wilkes-Barre, Pa. Brick, semi-fireproof, structural steel, 4 stories, 35x150 feet, wood floors, rolled steel sash. Plans in progress.

Store and Dwelling, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Charles Kenecht, Wilkes-Barre, Pa. Brick, steel, 2 stories, 36x48 feet, slag roof, pine floors, steam heat, electric light. Architect taking bids due May 5th.

Apartments (12), River and Ross street, Wilkes-Barre, Pa., $75,000. Architect, A. Reilley, Bennett Building, Wilkes-Barre, Pa. Owners, S. Engli & Gast, West South street, Wilkes-Barre, Pa. Brick, concrete, 3 stories, 117x44 feet, asphalt shingle roof, hardwood floors, steam heat, electric light, tile, marble work, fire escapes, terra cotta. Architect taking bids due as soon as possible.

Garage, Lower Merion, Pa. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, A. D. W. Smith, on premises. Stone, 2 stories, red slate or tile roof, concrete floors, electric light. Owner taking bids due as soon as possible.

Drill Shed, Carbondale, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owners, Carbondale Armory, B. F. Denning, State House, Harrisburg. Brick, steel, 2 stories, 62x82 feet, slag roof, hardwood floors, electric light, metal lath, rolled steel sash, iron stairs. Architect taking bids due May 17th.

Warehouse (alts.), Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owners, Quackenbush Warehousing Co., 325 Vine street, Scranton, Pa. General interior alterations, slow burning construction floors, electric light, plumbing. Plans in progress.

Duplex Apartment, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owners, Ellsworth-Kelly, 1143 Court street, Scranton, Pa. Frame, 2 stories, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Store Building (add.), Scranton, Pa. Architects, E. H. Davis and G. M. Lewis, Union National Bank Building. Owners, Scranton Dry Goods Co., Lackawanna and Wyoming avenues, Scranton, Pa. Steel, concrete, 11 stories, 30x45 feet, heating extension, electric lighting, hardwood floors, metal lath, hollow tile, rolled steel sash, freight elevator. Plans in progress. Architect will be ready for bids in 3 weeks.

Pennsylvania Contracts Awarded

School, Shenandoah, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, Roman Catholic Church of the Annunciation, care of Rev. John B. Dever, Shenandoah, Pa. Stone and frame, 3 stories and basement, 60x140 feet, asbestos shingle roof, pine floors (heating and electric work reserved). Contract awarded to Andrew Breslin, Summit Hill, Pa.

Store and Residences (2), Port Griffith, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Joseph Surma, care of architect. Frame, 2 stories, 36x60 feet, shingle roof, pine floors, steam heat, electric light. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre, Pa.

Warehouse, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Nelson Brothers, 38 Baltimore avenue, Wilkes-Barre. Slow burning mill construction, brick, 5 stories, 40x80 feet, slag roof, pine floors, electric light, rolled steel sash, fire doors, iron stairs, waterproofing and dampproofing. Contract awarded to Luther Roth, 127 South Welles street, Wilkes-Barre, Pa.

House (alts. and add.), Wilkes-Barre, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, 3 stories, 28x82 feet, tin roof, hardwood floors, electric light, tile work. Contract awarded to James Curtis Co., 1 Hickory street, Wilkes-Barre, Pa.

Bridge Repairs, Front street, Reading, Pa., $4,500. Architect, C. B. Ulrick, Reading, Pa. Owners, City of Reading, Pa. Steel and reinforced concrete. Contract awarded to Fehr & O'Rourke, Reading, Pa.

Residence (alts. and add.), Philadelphia Pike, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, J. W. Eckenrode, 48 North Queen street, Lancaster. Brick, 2 stories, 15x20 feet, slate roof, hardwood floors, hot air heat, electric light, tile work, alterations. Contract awarded to F. Bachman, Woolworth Building, Lancaster.

Bank, Palmyra, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Palmyra National Bank, Eugene Boman, on premises. Brick, stone, 3 stories, 30x68 feet, stone foundations, metal roof, marble floors, hot water heat, hollow tile, tile and terrazzo work, steel sash, skylights, roof ventilators, bank fixtures. Contract awarded to J. W. Pomraning, Kunkel Building, Harrisburg.

School, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Sacred Heart Roman Catholic Church, Rev. J. M. Steffey, Lancaster, Pa. Brick, 2 stories, 52x93 feet, slate roof, pine floors, steam heat, electric light, metal lath. Contract awarded to William Bentz, 536 East Chestnut street, Lancaster.

Hotel (add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, D. A. Skylass, Lancaster, Pa. Brick, 4 stories, 30x65 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, terra cotta work. Contract awarded to L. V. Wright, 9 South Duke street, Lancaster, Pa.

Residence, Front and Lewis streets, Harrisburg, Pa. Architect, B. E. Stair, Spooner Building, Harrisburg, Pa. Owner, R. W. Stone, 3131 North Second street, Harrisburg, Pa. Brick, stucco, 2½ stories, 29x39 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to F. Morrow, Harrisburg, Pa.

Residences, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, C. T. Ross, 1117 Market street, Harrisburg, Pa. Stucco, tile, 2½ stories, 32x36 feet, tile roof, hardwood and tile floors, steam heat, electric light. Contract awarded to A. H. Fraim, Harrisburg, Pa.

Apartment and Garage, River Road, Harrisburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owner, George W. Meyers, care of architect. Stone, 2 stories, 30x36 feet, slate roof, hardwood and concrete floors, steam heat, electric light. Contract awarded to J. W. Pomraning, Kunkel Building, Harrisburg.

Residence, Mt. Carmel, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, S. I. Junkus, Mt. Carmel, Pa. Brick and frame, 2 stories and basement, 23x41 feet, slate roof, hardwood floors, hot water heat, electric light, tile. Contract awarded to Keystone Lumber & Const. Co., Mt. Carmel, Pa.

Garage and Office, Eighth and Welsh streets, Chester, Pa. Architect, private plans. Owners, Lord Brothers, 518 Edgemont street, Chester, Pa. Brick, 1 story, 118x107 feet, slag roof, concrete floors, electric light, plate glass. Contract awarded to R. H. Scroggins, Crozer Building, Chester, Pa.

Store and Building, Adams and Spruce streets, Scranton, Pa. Architects, E. H. Davis and G. M. D. Lewis, Union Bank Building, Scranton, Pa. Owners, Stocher & Fisher, 121 North Washington avenue, Scranton. Brick, cut stone, steel, 6 stories, 154x88 feet, slag and tile roof, cement, pine and oak floors, metal lath, window guards and ceilings, damproofing, terra cotta, iron work and stairs. Contract awarded to John R. Wiggins, 18th and Cherry streets, Philadelphia.

Bungalow, Kenmore road, Brookline, Delaware County, Pa. Architect, Leo J. Malatesta, 5719 Hunter's avenue. Owner, James M. Christie, 1536 North Frazier street. Stone, frame and stucco, 1½ stories, 25x38 feet, shsingle roof, oak and pine floors, pipeless heater, electric light, tile work. Contract awarded to Leo J. Malatesta, 5719 Hunter's avenue.

Office Building, York road, Abington, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Highland Farms, Abington, Pa. Stone, 1 story, 30x18 feet, shingle roof, pine floors, hot water heat, electric lighting. Contract awarded to Roy Randall, Horsham, Pa.

Residence, Elkins Park, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, name withheld. Frame and stucco, 2½ stories, 28x40 feet, shingle roof, hardwood and pine floors, electric light, tile work (heat reserved). Architects taking bids due as soon as possible.

Bank Building, Ambler, Pa. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, First National Bank, Ambler, Pa. Brick, cut stone and steel, 2 stories, 90x57 feet, asbestos roof, cement and cork floors, hollow tile, metal lath, roof ventilators, metal window guards, bond, rolled steel sash and skylights, tile and marble work. Contract awarded to Mattison Const. Co., Ambler, Pa.

Residence, Brookline, Delaware County, Pa. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owner, Harry Bond, care of architect. Stone, 1½ stories, 26x49 feet, slate roof, hardwood and composition floors, hot water heat, electric light, tile work. Contract awarded to Robert G. Ward, 633 North Sixty-third street, Philadelphia.

Residence and Garage, Rydal, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Ogontz School, Rydal, Pa. Stone, 2½ stories, 36x115 feet, slate roof, oak and pine floors, hot water heat, electric light, tile and iron work. Contract awarded to E. Allen Reeves, Abington, Pa.

Residences (2), Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Joseph Moran ,Ardmore, Pa. Hollow tile and stucco, 2½ stories, 36x32 feet, shingle roof, pine and hardwood floors, hot water heat, electric light, tile. Contract awarded to John Morris, care of owner.

Publishing House, Easton, Pa. Architect, E. H. Chidsey, Easton, Pa. Owners, Easton Publishing Co., Easton, Pa. Brick, terra cotta, granite and steel, 3 stories, basement and mezzanine, 110x47 feet, slate roof, concrete, wood block, maple and composition and cork tile floors, metal lath, hollow tile, safety treads, waterproofing and dampproofing, bond, hollow metal doors, rolled steel sash and skylights, terrazzo and marble (heat, lighting, plumbing and elevators reserved). Contract awarded to R. T. & C. D. Stewart, Easton, Pa.

Residence, Rutledge, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, William H. Boyd, care of architectt. Frame, 2½ stories, shsingle roof, hardwood floors. Contract awarded to C. B .Young, Moore, Pa.

Bank, Enola, Pa., $25,000. Architects, Lawrie & Lappley, Second and Locust streets, Harrisburg, Pa. Owners, Enola State Bank, Dr. Holmes, Enola, Pa. Brick, 2 stories, 35x79 feet, slag roof, tile floors, vapor heating, electric light, hollow tile, metal lath, roof ventilators, metal window guards, bank fixtures, vault equipment, ornamental iron work. Contract awarded to J. C. Strickler, Enola, Pa.

Nurses' Cottage and Cottage No. 4, Laurelton, Pa., $56,970. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Pennsylvania Village for Feeble Minded Women, premises. Stone and steel, 2½ stories, 66x34 feet, and 3½ stories, hollow tile and stucco, 59x40 feet and 92x30 feet, slate roof, cement and pine floors, hollow tile, metal lath (heating, lighting and plumbing reserved), iron work. Contract awarded to H. A. Moore Co., Inc., Milton, Pa.

Bungalow, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, E. J. Flynn, 5330 Angora Terrace, Philadelphia. Frame and stucco, 2 stories, 40x36 feet, slate roof, hardwood, pine and composition floors, hot water heat, electric light, tile. Contract awarded to William J. Kennedy, 1667 South Yewdell street.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa.

Venango County, R-90, Coöperstown Borough, $80,465.10. Contract awarded to Seiple Wolfe Const. Co., Youngstown, O.

Venango County, R-218, Scrubgrass and Clinton Townships, $309,424.35. Contract awarded to Young Const. & Russell Brothers, West Austintown, O.

Venango County, R-91, Cranberry Township, $212,146.29. Contract awarded to Geo. S. White Co., Pittsburgh, Pa.

Warren County, R-279, Sugar Grove Township, $141,000.70. Contract awarded to Fred W. Knickenberg, Buffalo, N. Y.

Warren County, A-1846, Sheffield Township, $14,334.60. Contract awarded to Sheffield Concrete Co., Sheffield, Pa.

Beaver County, A-254, Centre Township, $28,953.70. Contract awarded to George S. White Co., Pittsburgh, Pa.

Clearfield County, R-276, Bigler Township, $86,510.26. Contract awarded to Standard Contr. Co., Altoona, Pa.

Crawford County, R-89, East Mead and Randolph Townships, $233,484.23. Assigned to Fort Pitt Const. Co., Pittsburgh, Pa.

Erie County, A-1111, Girard Township and Borough, $67,627.65. Contract awarded to Mayer Brothers Const. Co., Erie, Pa.

Venango County, R-208, Irwin and Clinton Townships, $284,530.75. Contract awarded to Young Const. Co. & Russell Brothers, West Austintown, O.

Warren County, A-1812, Freehold Township, $119,209. Contract awarded to Frank L. Conen, Buffalo, N. Y.

Armstrong County, R-67, Nonor Township, $111,782.85. Contract awarded to Jones Const. Co., Salem, Ohio.

Cambria County, R-276, Summerhill and Portage Townships, $153,124. Contract awarded to M. O'Herron Co., Pittsburgh, Pa.

Clearfield County, R-221, Mahaffey Borough, $33,362.38. Contract awarded to Burnside Const. Co., Burnside, Pa.

Clearfield County, A-1725, Bradford Township, $30,070.15. Contract awarded to Warren Brothers, Boston, Mass.

Lawrence County, R-315, Slippery Rock and Wayne Townships, $251,937.71. Contract awarded to Burns & Burt, Elwood City, Pa.

Mercer County, R-208, Sandy Lake and Jackson Townships, $230,412.50. Contract awarded to Strange & Pange, Mercer, Pa.

Mercer County, R-238, Hickory Township, $63,147.45. Contract awarded to J. C. Devine Co., Alliance, O.

Mercer County, R-208, Mercer Borough, $29,813.58. Contract awarded to Jamieson & Marlee, Fredonia, Pa.

McKean County, R-100, Foster Township, $63,025.56. Contract awarded to D. Leroy Dennis, Eldred, Pa.

York County, R-216, Red Lion Borough, $128,052.93. Contract awarded to Warren Brothers, Boston, Mass.

Venango County, A-1856, Cornplanter Township, $120,213.05. Contract awarded to H. P. Streicher Co., Toledo, Ohio.

Clarion County, R-214, Toby and Madison Townships and Rimersburg Borough, $121,291.40. Contract awarded to R. V. Baldwin, Coraopolis, Pa.

Clearfield County, R-234, Woodward Township, $53,083.05. Contract awarded to R. J. Delong, Williamsport, Pa.

Clark & Dudnick, architects, of 23 South Sixteenth street, Philadelphia, have dissolved partnership. J. Frank Clark will continue the practice of architecture at the above-mentioned address.

The Pennsylvania State Board of Examiners of Architects announce that the next examination to qualify for registration in the State of Pennsylvania will be held in Harrisburg, June 27th to 30th, inclusive. The examination is based on the practical side of the practice of architecture.

Full information may be secured by addressing the State Board of Examiners of Architects, Commonwealth Trust Building, Harrisburg, Penna.

All applications for the June examination must be in the hands of the Board on or before June 10th, 1922.

INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 28, 1922. Sealed Proposals will be opened in this office at 3 P. M., May 29, 1922, for the remodeling and repairing of the United States Custom House and Post Office at Buffalo, N. Y. Drawings and specifications may be obtained from the custodian at Buffalo, N. Y., or at this office, in the discretion of the Supervising Architect. James A. Wetmore, Acting Supervising Architect.

(Contiuned from page 280)

(c) If prices are unduly high because of distance from producing points and the raw materials are more economically accessible locally, efforts should be made to have some company build a branch plant nearer to the town.

6. If work is delayed on account of unduly high labor costs the Labor Committee should hold conferences with the building employers and employees to develop—

(a) Whether average wages paid local building trades are consistent with wages paid for similar skill in other trades after taking into consideration the fact that workmen in the building trades do not have the same regularity of employment.

(In this connection the following distribution of labor costs for houses as published by the Building and Housing Division of the U. S. Bureau of Standards may help in determining a weighted average of building trades wages)—

Total Labor Costs—100%

Trade	Frame House	Brick House
Carpenters	49.6	32.2
Bricklayers	6.2	21.5
Hod Carriers	2.2	6.7
Plasterers	7.9	8.8
Plumbers	8.7	7.6
Electricians	2.6	2.5
Painters	10.0	6.3
Common Laborers	6.3	9.9
All others	6.5	4.5
Total	100.0	100.0

(b) Whether labor is giving a full day's work for a full day's pay. What are some unit costs, i. e., the cost to lay 1,000 bricks.

If wages have not been properly readjusted or if the workers in the building trades are not producing in quantity or quality as they should, the contractors and employers should be called upon to bring about proper readjustments and production by conferences with employees showing to the latter the necessity for the workers themselves doing their part with all other branches of the industry in getting building costs down to a level which will encourage extensive local construction activities which in turn will provide more continuous employment for the workers.

Unfair Practices—The continuation of unfair practices is a factor contributing to high costs in some localities.

Notwithstanding the improvements which have taken place in some instances with respect to the practices in the industry, it is apparent that there still exist trade abuses, waste, and unnecessary expense. It is a first essential of the proper development of the construction industry on a sound basis that all practices which unnecessarily retard the work or add to its cost should be immediately discountenanced and abandoned, if the confidence of the public is to be fully restored.

The building contractors, both general and sub, as well as the employees, must be appealed to to take advantage of this opportunity to eliminate all unfair practices which may exist and which either directly or indirectly add to the cost of construction unnecessarily. The employers and the employes will themselves know best whether or not any such unfair practices still exist. In some communities these practices have added an enormous burden of cost to the public and in such communities have gone far to destroy the public confidence in the industry of a whole. Whether it be employer or employee or due to the joint action of both that unfair practices still exist, they must be weeded out once and for all if there is to be a renewal of confidence and a revival of construction activity. The public is a deeply interested partner in the construction situation and its interests can no longer be ignored and the public can no longer be taken advantage of by any practices which mean a direct increase in the cost of construction or a more or less indirect increase due to delays and interferences of one kind or another in prompt completion of any construction activity.

If there are other reasons interfering with the starting of construction activities, such reasons should be investigated with the interests affected, along the lines suggested for these three more usual interferences, and every possible obstacle removed.

Then the committee should call a general public Community Conference participated in by the city officials to give it official standing, and the public will thus be advised of the readjustments which have been brought about to the end that the confidence of the people may be restored in the value of services rendered by the construction industry and the largest possible amount of work be started.

Local newspapers should be kept in close touch with the work of the committee and should lend the committee ample space for publicity of facts ascertained.

Once the general conference is over the local contractors and material people should soundly merchandise their services to the local market as brought out by the study of the committee. Constructive measures should be adopted in each locality by contractors, educational authorities and labor to attract and properly train a sufficient number of young men in the building trades to meet the construction needs of that community in years to come.

Once work is started again the committee should study and devise ways and means to obtain accurate employment records of building trades, proper allocation of materials and labor by distributing construction activities more evenly throughout the year to avoid as far as possible the seasonal slump of building activities, and to provide as nearly as practicable continuous employment for workers, less congestion of rail facilities and more uniform operation of producing mills, plants, and quarries.

The plan of setting aside a small percentage of public works funds, and larger industrial or utility maintenance and improvements appropriations to provide a reserve fund for construction in times of depression, is worthy of study and application wherever conditions will permit.

In most cities a larger percentage of contracts should be awarded during the Fall and Winter months.

In towns where union wage agreements are made they should apply for the calendar year and be entered into during the Fall of the preceding year so as to avoid delay in starting work in Spring on account of wage disputes.

The practice in some localities of obtaining a fixed percentage reduction from building supply dealers and all interests having direct bearing on the cost of construction for a limited period, in order to stimulate construction and bring conditions back to normal more speedily, is worthy of consideration when conditions permit of its application.

Details as to how special problems have been solved in various communities may be obtained or answers received to questions by writing Division of Building & Housing, U. S. Bureau of Standards, Department of Commerce, Washington, D. C., or The National Federation of Construction Industries, Drexel Building, Philadelphia, Pa.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co. .....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Mineraloid Flooring Co. ....524 Drexel Bldg., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co. 829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR HARDENER.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HARDWOOD FLOORS.
Geiger, A. F..S. E. Cor. Felton and Media Sts., Phila.

HAULING CONTRACTORS.
Kane & Co. .....1226 N. 9th St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
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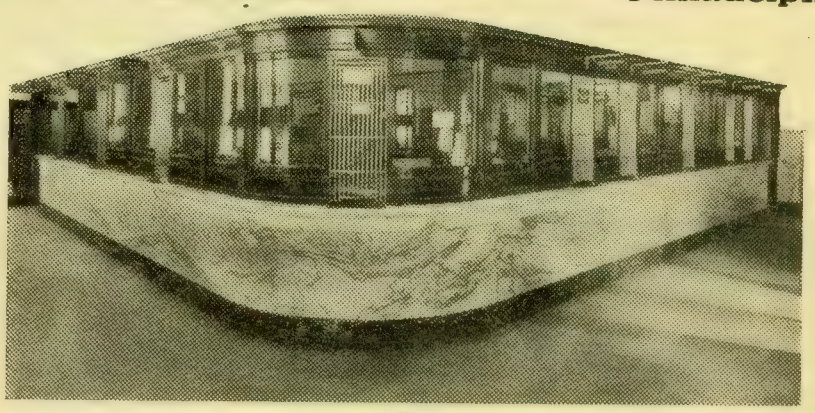
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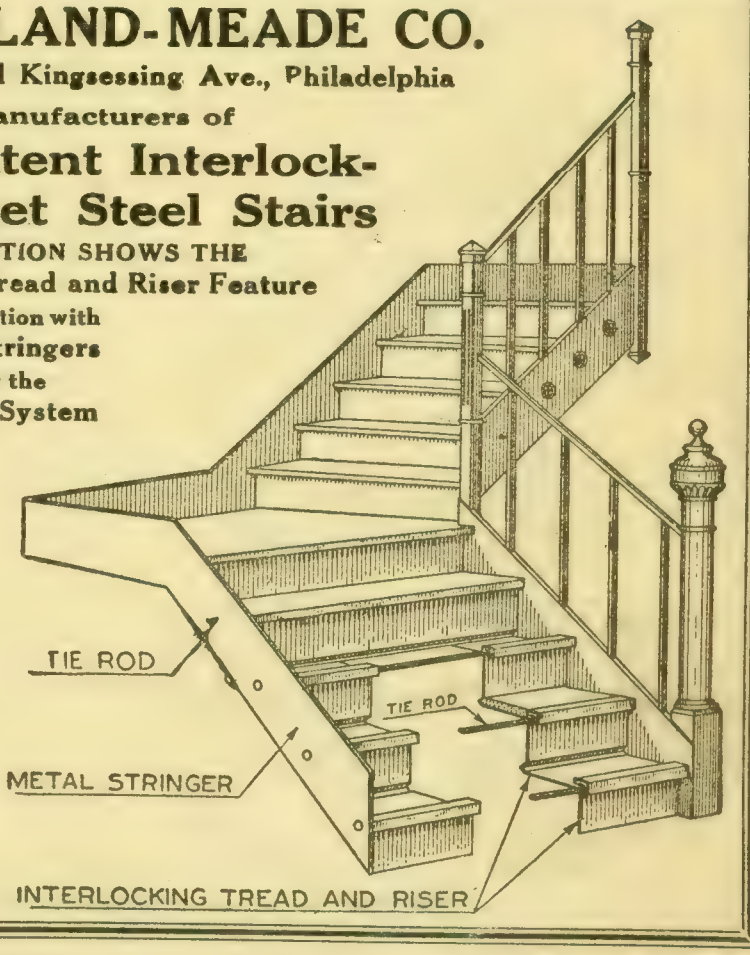
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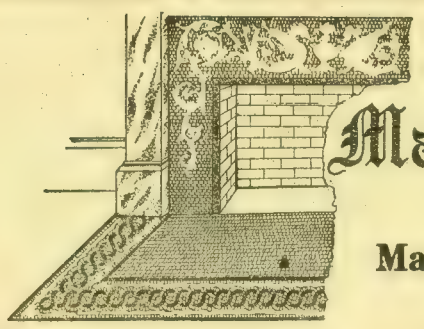
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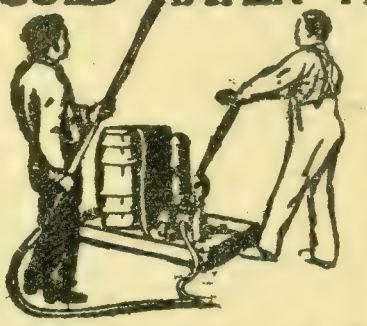
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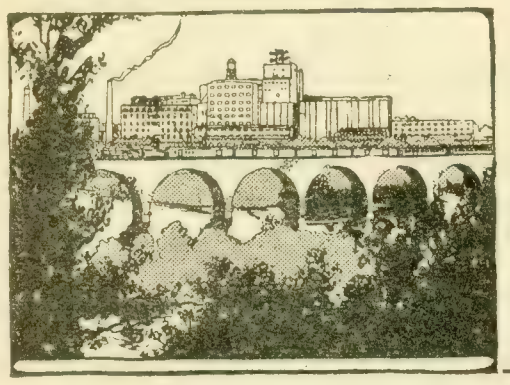
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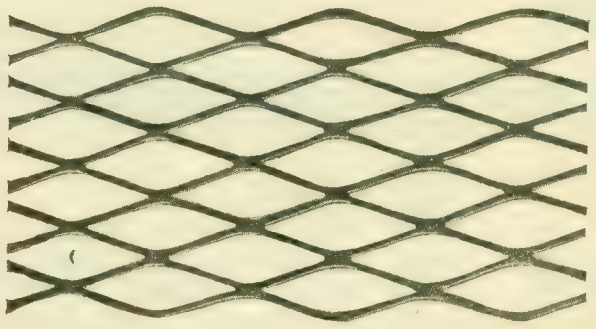
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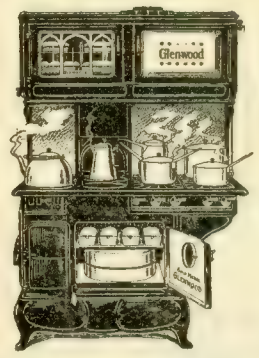
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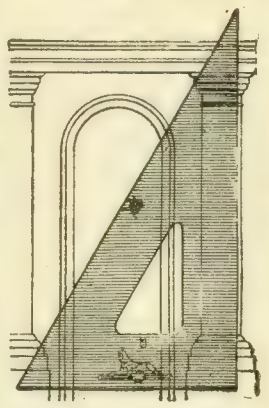
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 19

PHILADELPHIA
May 10, 1922

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As The Editor Sees It

PRELIMINARY arrangements were completed in Washington, Wednesday, May 3, for the organization of the American Construction Council when Secretary of Commerce Hoover agreed to accept the chairmanship of the organization meeting to be held in Pittsburgh, June 19. Franklin D. Roosevelt, of New York, formerly Assistant Secretary of the Navy, has consented to accept the presidency of the organization.

The purpose of the Council is to place the construction industry on a high plane of integrity and efficiency and to correlate the efforts toward betterment made by the existing organizations, through a conference association representative of the whole industry and dedicated to the improvement of the service which the construction industry renders to Communities, States, and Nation.

All branches of the industry are represented in the new body and have been divided into the following groups, each with equal voting power. Architects, engineers, general contractors, sub-contractors, construction labor, material and equipment manufacturers, material and equipment dealers, financial, bond, and real estate interests, public utility construction departments, and the construction divisions of federal, state and municipal governments.

So far as is known, this is the first time in the history of American industrial development that any industry has been represented by an organization in which all the elements have been brought together for the mutual interest of the industry and the public.

This action is the culmination of many efforts that have been made in recent years to solve the difficult problems thrown on the industry by reason of its size and complexity and the accumulation of construction due to the cessation of building activities during the war. The immediate inspiration for the movement has come from the interest displayed by Mr. Hoover in the industry and his belief in the importance of its revival for the awakening of business activity. In accepting the chairmanship, Mr. Hoover emphasized the need or an all-embracing organization such as the Council and pointed out that if it had been in existence before the present depression, it would have been invaluable in furnishing to the public unbiased facts pertaining to the different phases of construction, thus probably winning for the industry the confidence of the public.

The organizers of the Council are planning to take up a number of important lines of work, among them the following: Code of Ethics for the industry, development of a national building code, a research and statistical bureau, lengthening of the construction season, elimination of waste, standardization and dimensional simplification, development of apprenticeship systems, and encouragement of local study and better understanding of building situations.

E. J. Russell, of the Executive Committee of the American Institute of Architects, has been chairman of the preliminary meetings, and the organizing work is in the hands of a committee consisting of the secretaries of the American Institute of Architects, the Federated American Engineering Societies, the Building Trades epartment of the American Federation of Labor, the National Federation of Construction Industries, the National Lumber Manufacturers' Association, and the General Manager of the Associated Contractors of America.

For the first time since 1916, enough new dwellings will be built in this country during the current year to more than care for the increase in demand, according to reports received from over the country by the Civic Development Department of the Chamber of Commerce of the United States. In other words, the prospects are, according to these reports, that the accumulated shortage of dwellings will be somewhat cut down this year.

For the purpose of determining whether these reports are borne out by facts and for the purpose of going into other construction questions, there will be held a meeting on housing in connection with the Tenth Annual Convention of the Na-

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tional Chamber in Washington, May 15 to 18. The general subject of the convention will be "European Conditions and their Effect upon American Business."

The housing meeting will be one of a number of group sessions. In announcing the questions that will come before the housing meeting, the Civic Development Department says:

"For the past five years and more most American cities have suffered from a housing shortage that in some cases was so acute that emergency legislation was passed to check rent profiteering and to stimulate building. Now reports are coming in from all parts of the country of great activity in building, particularly the building of houses. The Civic Development Department's records indicate that in 1922 we shall, for the first time since 1916, build enough new dwellings to more than care for the increase in demand. In other words, the prospects are that we shall this year begin to cut down on the accumulated shortage.

"Are these reports borne out by facts? Do the facts indicate a wholesome, steady increase of building which we may expect to continue until we have enough good houses, or do they indicate a boom, higher prices of materials and labor, followed by recession? Are the houses now being erected well planned and well built so that they will be permanent assets to their communities, or are they destined to soon become shabby and dilapidated? Is housing again on the way to becoming a good investment for the man who wishes to put his money into rental property?

"The principal speakers will be Leonard P. Ayres, vice president of the Cleveland Trust Company, who will present the Prospects of the Construction Industry in American Cities, and Lyman Clark, of the General Electric Company, Schenectady, N. Y., who will speak on the Dangers of Shoddy Construction. There will be ample opportuniy for builders and others interested to take part in the discussion."

ANNUAL MEETING OF THE AMERICAN INSTITUTE OF ARCHITECTS

The fourteenth annual meeting of the Pennsylvania State Association of the American Institute of Architects was held May 4th at the Princeton Club, Philadelphia, with M. I. Kast, president, in the chair.

Delegates representing the chapters from Erie, Pittsburgh, Southern Pennsylvania, Scranton-Wilkes-Barre and Philadelphia were in attendance.

Certain special items of interest to the building public and the architects of the State were given careful consideration.

For more than a dozen years the Philadelphia Chapter has had in charge the restoration of the most sacred of the group of historic buildings of the United States, of which Independence Hall is the central unit, which service has been rendered gratuitously, as has been done in other portions of the State. In most cases the profession has not been given proper recognition for such service.

The question of a State Building Code was carefully discussed. The preparation of the Building Code, which is now being written by the Department of Labor and Industry, was given consideration. In analyzing this Code, it was found that it did not meet the conditions of the building public, the thought of the Association being that in its present form it would affect a serious hardship upon the building public.

The attention of the Association was also called to the fact that buildings which house private schools in many cases do not meet proper conditions of health and comfort of the pupils, and that this matter should be investigated and that all institutions of this character should raise their standards in this respect to meet modern practice.

The Legislative Committee, composed of Sidney F. Heckert, Sr., Pittsburgh; M. I. Kast, Harrisburg, and Albert Kelsey, Philadelphia, was agreed upon. This Committee is charged with such new legislation as will affect the building public and the architect. They are further charged with recommending to the proper authorities that the architectural work of the various divisions of the State Government should be placed in the hands of the practitioner and that the State officials should exercise supervisory powers only, and that these matters should be taken up with the proper authorities.

The Association in expressing its endorsement of the Sesqui-Centennial Exhibition offer their services in the hope that it will be brought to a successful pass and that it may reflect credit not only on Philadelphia and the State of Pennsylvania, but also on the United States.

A special tribute was paid to John T. Comes, a noted ecclesiastical architect of Pittsburgh, who died recently.

The officers elected for the coming year are: W. L. Plack, Philadelphia, president; Sidney F. Heckert, Sr., vice-president; Percy Ash, Philadelphia, secretary, and W. G. Stickle, Erie, treasurer.

CORRECTION

The site for the Hotel for the Philadelphia Hotel Corporation has not yet been selected. The last issue of the "Guide" reported that this hotel would be built on Arch St., between 15th and 16th. According to H. M. Von Duyke, Chairman of the Philadelphia Hotel Corporation, 642 Widener Bldg., Philadelphia, no site has yet been selected.

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.

On and after May 8th, 1922, the Philadelphia Builders' Exchange and Employers Association will be located in its new quarters, 1716 Arch Street, (Morris Plan Building), and a house warming has been arranged for Thursday, May 18th, followed by the Annual Shad Dinner at Mineral Springs Inn, Willow Grove, Pa.

S. W. Strauss & Co., large lenders of money for new buildings, say with regard to the building situation:

"There is a good demand for funds to carry on new building operations. The general fundamental conditions in the situation are now so nearly normal that since January 1 we have underwritten building loans amounting to $43,980,000, of which $26,510,000 was for apartment houses, $12,350,000 for office and loft buildings, and $5,120,000 or miscellaneous structures. If the demand continues at the same rate, and fundamental conditions seem to so indicate, we shall be in a position to loan aproximately $100,000,000 more to finance new building construction during the balance of the present year.

"That the present encouraging conditions are nationwide in character is indicated by the widely scattered range of these financial underwritings which include loans in fourteen cities and thirteen states, as follows: New York, Chicago, Philadelphia, Boston, Atlanta, Detroit, Fort Worth, Cleveland, Birmingham, Dallas, San Francisco, Kansas City, Seattle and Portland, Oregon."



Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office Building, Northeast Corner Sixteenth and Walnut streets, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, name withheld. Brick, concrete, steel, terra cotta, limestone, 18 stories. Plans in progress.

Church (fire rebuilding), Norris Square, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Norris Square Methodist Episcopal Church, Rev. George W. Tevey, pastor, 2225 North Mascher street; chairman, Building Committee, George S. Ford, 611 West York street, Philadelphia. Brick, 1 story, basement and gallery, 100x97 feet. Plans in progress. Too early for details. Will take bids in about one month.

Residences (3), East side Seventeenth street, South of Lindley avenue, $13,500. Architect, private plans. Owner, Raymond R. Rafferty, 4128 North Broad street, Philadelphia. Brick, 2 stories, 15x30 feet, 12x12 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (4) and Garages (2), East side Broad street, North of Chelten avenue, Philadelphia, $35,000. Architect, private plans. Owner, B. L. Shapiro, 6311 North Broad street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 52 feet and 24x24 feet, slag roof, oak, yellow pine and cement floors, electric lighting, hot water heating. Owner will build.

Residences (14), Fifty-ninth and Florence avenue, Philadelphia. Architect, private plans. Owner, Henry D. Dagit, Jr., 34 South Seventeenth street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak and pine floors, hot water or steam heat, electric light, tile work, excavating and stone work. Owner will be ready for sub-bids May 9th.

Parish Buildings, Chelten avenue and Opal street, Germantown. Architect, not yet selected. Owners, St. Benedict's Roman Catholic Church, care of Rev. William C. Farrell, formerly of Lenni, Pa. Work contemplated.

Sales and Service Building (alts.), 1212 Frankford avenue. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Harry S. French, Inc., on premises. General alterations. Plans in progress.

Residences (2), Fifty-second street and City Line, Overbrook. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Abraham & Louis Sablosky, 1214 Market street. Stone, brick and stucco, 2½ stories, slate roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Plans in progress.

Restaurant (add.), 3413-15-17 Woodland avenue and 3404 Walnut street, Philadelphia, $40,000. Architects, Stuckert, Inc., Crozer Building, Philadelphia. Owner, Benjamin Keplinger, on premises. Brick, 2 stories and basement, 47x80 feet, slag roof, pine floors, hot water heat, electric lighting, tile and marble work, dumb waiters. Architect is subletting.

Residences (4), Sydenham below Wyoming avenue, Philadelphia. Architect, private plans. Owner, William Cooper, 4680 Sydenham street. Brick, 2 stories, 15x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner taking sub-bids due as soon as possible.

Store and Apartments, York road and Albanus street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, M. Kirschner, 4930 Brown street, Philadelphia. Brick and steel, 3 stories, 100x106 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble, roof ventilators, metal window guards and weather strip, metal ceilings, terra cotta, ornamental iron work. Owner will build and is subletting.

Apartments, Tenth and Olney avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Charles A. Mahan, 5530 North Fifth street, Philadelphia. Brick, 3 stories, will contain 12 apartments, 39x105 feet, slag roof, hardwood floors, pine floors, roof ventilators, cement work, hot water heat, electric light, tile and marble work. Owner is taking sub-bids.

Residence for Internes, Thirty-fourth and Pine streets, Philadelphia. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, C. L. Furbush, M. D., Director, 584 City Hall. Brick ,steel and cut stone, 3 stories, 83x146 feet, slag roof, oak and pine floors, elevators, dumb waiters, metal lath, tile, marble and terrazzo, kalamein doors, iron work and stairs, terra cotta. Owners taking bids due May 15th.

Store and Apartments, 519 South Fifth street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, J. Cohen, 517 South Fifth street. Brick, 3 stories, 20x70 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble, hollow metal skylights and cornice, flush bulks, plate glass. Owner is ready for bids.

Manufactory and Pump House, Margaret and James streets. Architects, Ballinger & Co., Twelfth and Chestnut streets. Owners, Blumenthal Brothers, on premises. Concrete, brick, terra cotta and steel, 3 stories, 273x82 feet, and 1 story, 31x15 feet, slag roof, concrete and composition flors, hollow tile, metal lath, safety treads, waterproofing and dampproofing, terra cotta, iron work and stairs, bond, fire and kalamein doors, rolled steel sash, tile and marble work (heating, lighting, plumbing and elevators reserved). Architect taking bids due May 18th.

Factory, Eleventh and Wood streets, Philadelphia. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owner, John J. McLaughlin, on premises. Brick, concrete and steel, 2 stories and basement and alternate 8 stories and basement, 80x96 feet, slag roof, maple and concrete floors, hollow tile, metal lath, elevators, waterproofing, iron work and stairs, floor hardener, bond, hollow metal doors and skylights, rolled steel sash, marble work (heating and lighting reserved), cut limestone, cold water painting. Architect taking bids due May 16th.

Warehouse, Glenwood avenue and Oxford street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street. Owner, Harry C. Kahn, Eleventh and Filbert streets. Reinforced concrete and brick, 6 stories, irregular, 170x111x230 feet, slag roof, cement floors, dampproofing, iron work, tin covered doors, hollow metal skylights (heating, plumbing, electric work and elevators reserved). Architect taking bids due May 15th.

Residence (alts.), 322 South Sixteenth street, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Dr. M. V. Leof, 1626 Spruce street, Philadelphia. Offices and waiting rooms on first floor, general alterations to entire three- and four-story building, marble front, tile and marble work, electric light, heating extensions, hardwood floors. Architect taking bids due May 12th.

Residence, Lincoln Drive and Emlen street. Architect, Thomas B. Lippincott, 11 South Sixteenth street. Owner, Mrs. M. L. Taylor, care of architect. Brick, 2½ stories, 28x35 feet, shingle roof, oak and pine floors, iron work, tile work, electric light, hot water heat. Architect taking bids due May 11th.

Residence and Garage, Oak Lane, Philadelphia. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Mrs. C. H. Lentz, care of architect. Stone, 2½ stories, 40x45 feet, and 1 story, 23x20 feet, slate roof, hardwood floors, vapor heat, electric light, tile and cement work. Architect taking bids due May 11th.

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Church, Fifth and Fisher's avenue. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Lindley Methodist Episcopal Church, on premises. Stone, 1½ stories, 67x55 feet, slate roof, pine floors, steam heat, electric light, tile work. Architect taking bids due May 15th.

Loft Building, Northeast Corner Randolph and Vine streets. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, Julius Boekel, 516 Vine street, Philadelphia. Concrete, brick and steel, 9 stories and basement, 149x85 feet. Architect taking bids due May 11th at noon.

Residence, West Laurel Hill Cemetery, Philadelphia. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, West Laurel Hill Cemetery, Philadelphia. Hollow tile and stucco, 2½ stories. Architect taking bids due May 16th.

Contracts Nos. 4 and 5, Delaware River Bridge. Architect, private plans. Owners, Delaware River Bridge Joint Commission, Widener Building. Construction of first section of Philadelphia anchorage and first section of Camden anchorage. Owners taking bids due May 31st, standard time, at 2 P. M. Deposit, $15.00.

Demolition and Removal of Buildings, Eighteenth, Nineteenth, Vine and Wood streets, and 4637-39 Richmond street. **Steps, Copings, Foundation Walls, Piers, Vaults, etc.**, 4637-4639 Richmond street. Owners, Bureau of City Property, Department of Public Works, Frank H. Caven, 216 City Hall. Owners taking bids due May 12th at noon. Inquire 117 City Hall.

Residences (12), West side Fifty-fourth street, South of Florence avenue, $42,500. Architect, private plans. Owner, Hyman Barkan, 1520 South Sixth street, Philadelphia. Brick, 2 stories, 16x45 feet and 16x32 feet, 13x13 feet, slag roof, hot water heat, electric light, oak and yellow pine floors. Owner will build.

Residences (12), North side Woodland avenue, West of Fifty-third street, $82,000. Architect, private plans. Owner, Charles I. Spade, 20 North Fiftieth street, Philadelphia. Brick, 2 stories, (11) 15 feet 10 inches x 27 feet 3 inches, (1) 21½x51 feet, slag roof, oak and yellow pine floors, hot water heat, electric lighting. Owner will build.

Residences (4), South side Howarth street, East of Horrocks street, $6,000 each. Architect, private plans. Owner, Harry Drake, 3139 Frankford avenue, Philadelphia. Brick, 2 stories, 20x37½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (76), Fifty-sixth street and Kisessing avenue, and Fifty-fifth street, Vodges and Regent streets, $319,100. Architect, private plans. Owner, Timothy Gallagher, Fifty-fifth and Springfield avenue, Philadelphia. Brick, 2 stories, 16x45 feet, 16x30 feet, 16 feet 4 inches x 50 feet, 15x30 feet, 11x10 feet, 16x30 feet, 12x10 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (23), North side Kingsessing avenue, West of Sixty-fifth street, Philadelphia, $3,800 each. Architect, private plans. Owner, F. Kettleman, 6550 Chester avenue, Philadelphia. Brick, 2 stories, 14x32 feet, 11x11 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (8), East side Montour street, South of Levick street, and North side of Levick street, East of Montour street, $4,000 each. Architect, private plans. Owner, Christian Fischer, 6400 Oxford Pike, Philadelphia. Brick and frame, 2 stories, 16x42 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (11), Sixty-fifth avenue and Wistar street, $4,000 each; (2) Price and Wistar streets, $4,500. Architect, private plans. Owner, H. H. Herst, 1826 West Tioga street. Brick, 2 stories, 16x32 feet, and 2 stories, 20x32 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Owner will build.

Shop, Weikel street, North of Ontario street, $10,000. Architect, private plans. Owner, C. B. Leonard, 2429 West Allegheny avenue. Iron, 1 story, 60x90 feet, cement floors, electric light. Owner will build.

Factory, Thirty-fifth and Moore streets, Philadelphia, $15,000. Architect, private plans. Owners, Powers, Weightman & Rosengarten, Ninth and Parrish streets. Brick, 2 stories, 42x80 feet, slag roof, pine floors, steam heat, electric light, rolled steel sash. Owners will build.

Residences (4), South side Rockland street, West of Mascher street, $4,500 each. Architect, private plans. Owner, Max Schwartz, 415 Pine street, Philadelphia. Brick, 2 stories, 25x28 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (2), Orthodox and Tacony streets, $6,400 total. Architect, private plans. Owner, John H. Rackie, 3400 Devereaux street. Brick, 2 stories, 16x51 feet and 14x27 feet, slag roof, pine floors, hot water heat, electric light. Owner building.

Building (alts.), Northeast Corner Sixteenth and Wolf streets, $7,000. Owners, P. R. T. Co., Seventh and Dauphin streets. General alterations. Owners will build.

Store and Garage, Southeast Corner Seventh and Courtland streets, $5,500. Architect, private plans. Owner, Max Chipin, 1024 Rockland street. Brick, 2 stories, 29x26 feet, slag roof, oak and pine floors, hot water heat, electric light, cement work. Owner will build.

Residence, 3839 Cresson street, Philadelphia, $2,600. Architect, private plans. Owner, Thomas J. Grady, 3837 Cresson street. Brick, 2 stories, 16x46 feet, slag roof, oak and pine floors, hot air heat, electric light. Owner will build.

Residence, Eastwick avenue and Eighty-sixth street, $2,500. Architect, private plans. Owner, John F. Anderson, 3607 South Eighty-fifth street. Brick, 2 stories, 22x24 feet, slag roof, pine floors, hot air heat. Owner will build.

Recreation Building (alts.) (Belfield), Twenty-first and Chew streets. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Brick, concrete, grading, carpentry, mill work, cement work, hardware, painting, glazing, composition roof, plastering. Lowest bidders: Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, $2,297; E. C. Durell, 1716 North Twenty-fourth street, $2,718. Plumbing, L. J. Somers & Sons, 2436 Brown street, $1,496. Heating, J. Larkin, Philadelphia, $498. Electric, J. F. Buchanan, 1913 Chestnut street, $637.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store (alts.), 1721 Walnut street, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, Dominic Veranti, 1302 Walnut street, Philadelphia. Brick, cut stone and steel, 3 stories, 34x22 feet, slag roof, pine floors and composition floors, metal window guards, fire doors, rolled steel skylights, hollow metal sash, iron work, demolition. Contract awarded to Charles McCaul Co., 1519 Sansom street, Philadelphia.

Residence, North side of Hershel street, West of Southampton Road, $9,000. Architect, private plans. Owner, Oscar E. Gerney, Somerton, Philadelphia. Hollow tile, 2 stories, 36x24 feet, 23x9 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Charles T. Ely, Somerton, Philadelphia.

Rectory (alts. and add.), 134 East Mt. Airy avenue, Philadelphia. Architects, Henry D. Dagit & Sons Co., 34 South Seventeenth street, Philadelphia. Owners, Holy Cross Roman Catholic Church, Rev. John J. Mellon, on premises. Brick, stucco, rear new third floors, 28x20 feet, raising roof, oak and pine floors, carpentry, mill work, painting, glazing, bond, metal lath, tile work, heating and lighting extensions. Contract awarded to William R. Dougherty, 1610 Sansom street.

Isolation Building, Wissahickon avenue and School Lane, Germantown. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Hebrew Sheltering Home, on premises. Brick, steel, 1 story, 52x30 feet, slag roof, pine floors, metal lath, demolition, steam heat, electric light, tile and marble work, bond. Contract awarded to A. Kirpichnikoff, Fifth and Tasker streets, Philadelphia.

Building (alts. and add.), 4101 Market street, Philadelphia, $3,700. Architect, private plans. Owner, Dr. J. C. Alexander, on premises. Brick, 2 stories, 16x13 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to George R. Bell, 1349 South May street, Philadelphia.

Store and Warehouse (add.), 2749 Kensington avenue, $2,000. Architect, private plans. Owner, Elmer Hinlal, 2747 Kensington avenue, Philadelphia. Brick, 1 story, 18x46 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Clayton & Clayton, 3012 Hartville street.

Residence and Store (add.), 429 North Sixty-fourth street, Philadelphia, $2,000. Architect, private plans. Owner, G. Anastasio, on premises. Brick, 2 stories, 25x23½ feet, slag roof, yellow pine floors. Contract awarded to John Manolino, 6223 Girard avenue, Philadelphia.

Bank Building, Broad and Federal streets, Philadelphia. A rchitect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, Feneral Trust Co., Broad and Federal streets. Stone, brick, cut stone, steel and concrete, 3 stories, 71x85 feet, slag roof, cork and cement floors, metal lath, roof ventilators, vapor heating, electric light, tile work, marble and artificial stone, hollow metal sash and doors, bronze work, painting, glazing. Contract awarded to Friel McLeister Co., Inc., 2146 East Norris street, Philadelphia.

Loft Building, 1025-27-29-31-33-35 Callowhill street. Architects, Ballinger Co,. Twelfth and Chestnut streets, Philadelphia. Owner, Samuel Y. Thompson, 312 Cherry street, Philadelphia. Reinforced concrete, 5 stories and basement, 80x120 feet, concrete roof and floors, freight and passenger elevator, sprinkler system, steam heat, electric light, plumbing, rolled steel sash. Contract awarded to Barclay White Co., 1713 Sansom street.

Warehouse (alts. and add.), 1809-11-13 Market street. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Fidelity Storage & Warehouse Co., premises. Concrete, steel, brick and cut stone, 12 stories and basement, 180x17 feet, asbestos asphalt roof, cement floors, hollow tile, metal lath, cork insulation, dampproofing, terra cotta, iron work, floor hardener, bond, hollow metal rolled steel and fire doors, rolled steel and hollow metal sash (electric work and elevators reserved). Contract awarded to William R. Dougherty, 1610 Sansom street.

Warehouse, Twenty-fourth and Walnut streets, Philadelphia. Engineer, L. B. Kimball, Baltimore, Md. Owners, Baltimore and Ohio Railroad Company, Baltimore, Md. Reinforced concrete and steel, 8 stories and basement, 182x'02 feet, composition roof, concrete floors, hollow tile, monolithic finish, waterproofing, iron work, hollow metal skylights, rolled steel sash, metal lath. Contract awarded to Turner Const. Co., 1713 Sansom street.

Rothschild Memorial Hall and Sisterhood Building, Fifty-eighth and Walnut streets, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Edward L. Rothschild, Atlantic City, N. J. Brick, precastone and steel, 2 stories, 61x22x50x30 feet, slate roof, cement and maple floors, metal lath, roof ventilators, metal weather strips, tile and marble work (heating, lighting and plumbing reserved), iron work. Contract awarded to John N. Gill Const. Co., Otis Building.

Residence, 6722 Chew street, Philadelphia, $8,000. Architect, Joseph Keyes, Otis Building, Philadelphia. Owner, Herbert Smith, care of architect. Stone and brick, 2¼ stories, 28x32 feet, slate roof, oak and pine floors, metal lath, dumb waiter, tile work, central heating, electric lighting, iron work. Contract awarded to Joseph S. Creamer, 1739 North Twenty-ninth street.

Residence (alts.), Southwest Corner Sixteenth and St. James streets, $15,000. Archi-

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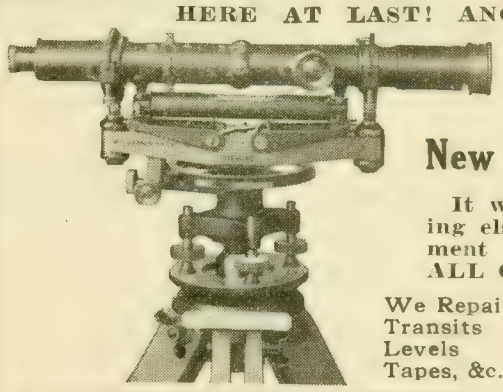
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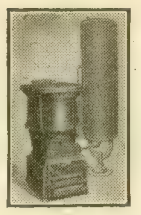
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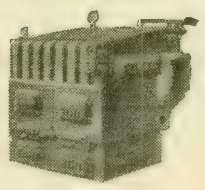
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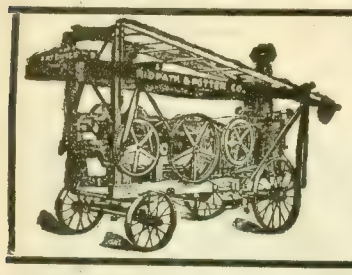
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tects, Hoffman Henon, Inc., Finance Building. Owner, S. D. Lit, Eighth and Market streets, Philadelphia. Lowering floors, mill work, electric work, hardwood floors, tile work, painting, steel girders, miscellaneous repairs. Contract awarded to P. M. Sax, Penfield Building, Philadelphia.

Residence (add.), Northwest Corner Willow Grove and Stenton avenues, $7,000. Architect, private plans. Owner, S. R. Morgan, on premises. Stone, 2 stories, 22x29 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to George S. Roth & Son, 230 East Graver's Lane, Philadelphia.

Residence, Frankford avenue and Academy Road, $9,000. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Miss Mary Lafferty, Torresdale, Pa. Brick, 2 stories, 36x26 feet, slate roof, oak and pine floors, hot air heat, electric light, tile work. Contract awarded to John J. Davies, 1021 Herbert street.

Garage, 734-36 Bainbridge street, Philadelphia, $13,600. Architect, private plans. Owner, Max Sax, 818 South street. Brick, 2 stories, 48x86 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to M. De Mori, 1000 Oregon avenue.

Store and Residence (alts.), 1509 Spring Garden street, $4,900. Architects, Durham Brothers, 1609 Sansom street. Owner, H. L. Bechtel, 3232 Ridge avenue. Brick, 3 story add., 16x24 feet, and 1 story add., 12x16 feet, brick front, carpentry, mill work, plastering, metal bulks, plate glass. Contract awarded to A. S. Shafer, 2122 South Nineteenth street.

Residences (6), Price and McMahan streets, Philadelphia. Architect, Addison H. Savery, Sr., 1309 Locust street. Owner, Edward F. Benniss, Germantown and Chelten avenues. Brick, 2½ stories, 17x41 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Charles Johnson, 2032 East Chelten avenue.

Store and Apartments (alts. and add.), Twenty-ninth and Diamond streets, $6,000. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, Nathan Zones, on premises. Brick, 3 stories, 20x38 feet, slag roof, pine floors, hot water heat, electric light, tile work. Contract awarded to Harry Bobb, 3032 Agate street.

Shop (add.), 6018 Beechwood street, Philadelphia, $2,000. Architect, private plans. Owner, Martin Griffin, 5953 Beechwood street. Brick, 1 story, 25x50 feet, slag roof, pine floors. Contract awarded to Charles Johnson, 2032 East Chelten avenue.

Tenement House, Germantown and Willow Grove avenues, Philadelphia, $20,000. Architect, private plans. Owner, I Largomarsino, 27 East Pastorius street. Brick, 3 stories, 31x52 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Eugene P. Laver, 221 North Fifty-eighth street.

Residences (2), Kinsley street and Wissahickon Drive, $10,500. Architect, private plans. Owner, Isaac Rittenhouse, 6226 Wissahickon avenue. Brick, 2 stories, 15x50 feet and 15x13 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to David Rittenhouse, 6226 Wissahickon avenue.

Stable, 421-23 Bainbridge street, $10,325. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, M. Berman, 425 Bainbridge street. Brick, 2 stories, 30x118 feet, electric lighting, slag roof. Contract awarded to I. Gold & D. Goldman, 2028 South Fifth street.

Residence, West side Johnson street, East of Magnolia street, $10,200. Architect, private plans. Owner, August Bauer, 6313 Ross street, Philadelphia. Stone, 3 stories, 31 feet 4 inches x 40 feet 4 inches, shingle roof, oak and yellow pine floors, hot water heat, electric light, tile work, metal lath, iron work. Contract awarded to Tourison & Tourison, 1310 Arch street.

Residence, Southeast Corner Chew and Mt. Pleasant streets, $10,000. Architect, private plans. Owner, John P. Krecker, 1735 Erie avenue, Philadelphia. Stone, 3 stories, 25 feet 4 inches x 37 feet 4 inches, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work, metal lath. Contract awarded to Tourison & Tourison, 1310 Arch street.

Residence, Northeast Corner Oak Road and School Lane, $25,000. Architect, A. E. Schenck, 1230 Real Estate Trust Building, Philadelphia. Owner, L. P. Stradley, 1428 Land Title Building, Philadelphia. Stone, 3 and 2 stories, 64 feet 10 inches x 36 feet, 15½x26 feet 10 inches, garage, 1 story, 20x22 feet, slate roof, oak, yellow pine and cement floors, hot air heat, electric light, tile work. Contract awarded to E. E. Ludwick, 1619 Chestnut street, Philadelphia.

Two-Family Dwelling, 5903 North Broad street, $10,000. Architect, H. Schaeffer, 4830 North Marvine street. Owner, Joseph Noerpel, 7126 North Broad street. Brick, 3 stories, 16x20 feet and 16x60 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Fred Schreiber, 1306 City Line.

Residence (add.), West side Bryn Mawr avenue, South of City Line, Philadelphia, $8,000. Architect, private plans. Owner, H. G. Schwartz, on premises. Stone, 2 stories, 20x40 feet, slate roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Building (alts.), 135 Dock street, Philadelphia, $6,500. Architect, private plans. Owners, Merchants' Wholesale Grocery Co., on premises. General interior altertaions. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Residence, East side Cliveden street, East of Magnolia street, $7,000. Architect, private plans. Owner, H. Schaeffer, 6361 McCallum street, Philadelphia. Brick, 2 stories, 17x46 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to M. W. Schaeffer, 6361 McCallum street.

Residence, South side Singer street, West of Rising Sun avenue, $6,500. Architect, private plans. Owner, Jacob Raimann, 6347 North Lee street, Philadelphia. Brick, 3 stories, 16 feet 4 inches x 48 feet 6 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to William G. Isles, 806 Levick street, Philadelphia.

Residences (2) 8404-06 Caruthers avenue, $5,200 total. Architect, private plans. Owner, Robert Hacker, 8400 Caruthers avenue. Brick, 2 stories, 16x32 feet, slag roof, pine

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floors. Contract awarded to Frank Thompson, 8400 Tinicum avenue.

Garage, 5808 Arch street, Philadelphia, $6,700. Architect, private plans. Owner, Miss E. D. Melville, 22 North Fifty-second street. Brick, 1 story, 47x98 feet, slag roof, cement floors, steam heat, electric lighting. Contract awarded to Felix Claro, 5313 Malcolm street.

Residence, F and Taley streets, Philadelphia, $7,500. Architect, private plans. Owner, Charles J. Bauer, 5035 North Fifth street, Philadelphia. Brick, 2 stories, 32x46 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to William Schmitt, 4937 North Fairhill street.

Garage, East side Fifteenth street, North of Courtland street, $4,000. Architect, private plans. Owner, Charles F. Ruekmling, 4716 North Eighth street, Philadelphia. Brick, 1 story, 25x62 feet 10 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to G. J. Reich, 5126 North Tenth street, Philadelphia.

Residence and Garage, 8836 Germantown avenue, $4,900. Owners, Estate of Henry A. Laughlin, Chestnut Hill. Stone, 2 stories, 25x32 feet, slate roof, oak, pine and cement floors, electric lighting. Contract awarded to Ralph C. Borthwick, 8018 Germantown avenue.

Store and Residences, Southeast Corner Fifty-ninth and Girard avenue, $4,000. Architect, private plans. Owner, Charles Hannegan, 1435 Cayuga street. General alterations. Contract awarded to Thomas M. Kealey, 4411 Germantown avenue.

Residence, Cottage street, North of Naple street, $4,500. Architect, private plans. Owner, John F. Baslow, 2916 East Memphis street. Brick, 2 stories, 26x40 feet, slag roof, oak and pine floors, hot water heating, electric lighting. Contract awarded to Herbert L. Curtin, Somerton, Pa.

Garage, 3359 East Thompson street, $2,600. Architect, private plans. Owner, James Zutick, 3365 East Thompson street. Brick, 1 story, 17x80 feet, slag roof, cement floors, electric lighting. Contract awarded to S. Ozga, 2507 East Westmoreland street.

Residence, 4433 N. Third street, Philadelphia, $4,000. Architect, private plans. Owner, J. Fred Burkhart, 5519 North Fifth street. Brick, 2 stories, 16x32 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to Charles Sinn, 5518 North American street.

Residence (alts. and add.), 50 West Upsal street, $5,000. Architect, private plans. Owner, A. Freeman, 206 East Penn street, Philadelphia. Brick, second story add., 10x22 feet, slag roof, oak and yellow pine floors, electric lighting. Contract awarded to R. M. Peterson & Son, 5114 Germantown avenue.

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Office and Residence (alts. and add.), 249-51 North Fifty-second street, $5,000. Architect, private plans. Owner, M. Fisher, 249 North Fifty-second street, Philadelphia. Brick, 2 stories, 16x13 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to John Mortimer, 3377 Emerald street, Philadelphia.

Residence, 7211 Lawndale street, Philadelphia, $4,500. Architect, private plans. Owner, C. Thistner, 7217 Lawndale street, Philadelphia. Frame, 1 story, 20x30 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to W. Robinson, 7319 Rising Sun avenue.

Office Building, Southwest Corner Fifth and Green streets, $3,000. Architect, private plans. Owner, A. H. Ladner, Inc., on premises. Carpentry, mill work, painting, glazing, plastering, general repairs. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

Office, 2219 East Cumberland street, Philadelphia, $3,870. Architect, private plans. Owner, Dr. V. J. Fenerty, 2217 East Cumberland street. Brick, 1 story, 16x24 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to R. J. Diamond, 2834 East Thompson street.

Residence (add.), 2320 Orthodox street, $3,500. Architect, private plans. Owner, John A. Rand, on premises. Brick, 2 stories, 20x42½ feet, slag roof, yellow pine floors, electric lighting. Contract awarded to John Kaznierozak, 2385 Orthodox street.

Steel Framing for Show Windows, 1332 Chestnut street. Owner, Joseph Hilton, on premises. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Building (alts.), Northeast Corner Ridge and Wissahickon Drive, $7,500. Architect, Ralph White, Pennsylvania Building, Philadelphia. Owner, A. Barnett, Ridge avenue and Wissahickon Drive, Philadelphia. General interior alterations. Contract awarded to W. O. Springer, 2004 Naudain street, Philadelphia.

Residence, North side Summitt, East of Shalhop street, $4,000. Architect, private plans. Owner, Herman F. Wagner, 475 Hermitage street, Philadelphia. Stone, 1 story, 26x40 feet, slate roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to W. W. Anstine, 1218 Filbert street.

Building (add.), 1917 Green street, Philadelphia, $2,400. Architect, private plans. Owner, Peter H. Powers, on premises. Brick, 1 story, 14 feet 10 inches x 30 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Daniel De Fileppo, 1016 Federal street.

Building (alts.), 1002 Diamond street, Philadelphia, $3,000. Architect, private plans. Owners, Miller North Broad Storage Co., Broad and Lehigh avenue. General interior alterations. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

Shop (add.), 3322 Woodland avenue, $2,700. Architect, private plans. Owners, Eastern Auto Co., on premises. Brick, 1 story, 15x52 feet, slag roof, cement floors. Contract awarded to Louis Cohn, 417 Christian street.

Building (alts.), 110 North Twenty-third street, $3,800. Architect, private plans. Owners, George P. Pilling & Son, on premises. General interior alterations. Contract awarded to Spencer, White, Prentis Co., 100 West Forty-first street, New York City.

Warehouse, Southeast Corner Oxford avenue and Rhawn street, $2,200. Architect, private plans. Owners, Grookett Brothers, Second Street Pike, Philadelphia. Brick, 2 stories, 35x20 feet, slag roof. Contract awarded to Economy Cont. & Bldrs., Fox Chase.

Residence, Bingham and St. Vincent streets, Philadelphia, $3,000. Architect, private plans. Owner, Alice A. Wood, 4936 North Fifth street. Stone and frame, 2 stories, 24x26 feet, slate roof, oak and pine floors, hot water heat ,electric light. Contract awarded to Economy Cont. & Bldrs., Fox Chase.

Shop (alts.), 2112 Walnut street (rear), $3,000. Architect, private plans. Owner, Davis Jamsion, Southeast Corner Twenty-first and Locust streets. General alterations. Contract awarded to Joseph E. Foster, 806 Walnut street.

Residence, Claridge street, South of Cottman street, $5,500. Architect, private plans. Owner, J. Linturyler, 1629 North Cadwalader street. Frame, 2 stories, 28x39 feet, shingle roof, oak and pine floors, hot water heat, electric lighting.. Contract awarded to August Frazier, 1646 North Fourth street.

Shop, 2040 Amber street, Philadelphia, $3,200. Architect, private plans. Owner, Charles Elinger, 2038 Amber street. Brick, 1 story, 15x66 feet, slag roof, pine floors. Contract awarded to A. E. Barnis & Co., 2041 East Clementine street.

Garage, 1703 Francis street, Philadelphia, $2,000. Architect, private plans. Owner, Mrs. Sauter, 1701 Francis street, Philadelphia. Brick, 1 story, 14x22 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to S. L. Luff, 700 North Nineteenth street, Philadelphia.

Building (add.), Southwest Corner Front and Clearfield streets, $2,700. Architect, private plans. Owner, F. Kisser, on premises. Brick, 1 story, 19x54 feet, slag roof, pine floors, electric lighting. Contract awarded to Samuel Campbell, 3346 North Hancock street.

Residence, Prospect and Cemetery Road, $3,700. Architect, private plans. Owner, Dr. Frank Bowman, 1711 South Thirteenth street. Frame, 2 stories, 32x31 feet, shingle roof, pine floors, hot water heat, electric lighting. Contract awarded to D. C. Moyer & Co., 2344 North Carlisle street.

Shop, Northeast Corner Sixth and Titan streets, $4,000. Architect, private plans. Owner, J. Ecker, 1211 South Eighth street. Brick, 2 stories, 30x40 feet, slag roof, pine floors. Contract awarded to Frank & Kaiser, 1517 South Sixth street.

Garage, 1418 North Carlisle street, Philadelphia, $2,400. Architect, private plans. Owner, Dr. Frank A. Fox, 1417 North Fifteenth street, Philadelphia. Brick, 1 story, 27x26 feet, slag roof, cement floors, electric lighting. Contract awarded to T. S. Fetter, 1829 Filbert street.

Two-Family Dwelling, 4642 North Broad street, Philadelphia. Architect, private plans. Owner, D. G. Schoenley, on premises. Brick, 2 stories, 16x14 feet 9 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to McClintock & Weaver, 24 West Phil-Ellena street.

Residence (add.), 503 West Springer street, $2,000. Architect, private plans. Owner, William MacNeill, on premises. Brick, 2 stories, 15x9 feet, slag roof, oak and yellow pine floors. Contract awarded to Stewart Brothers Co., 2526 North Orkney street.

Store and Office (alts.), 5623-25 Germantown avenue, $2,000. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, G. P. Darrow, 5621 Germantown avenue, Philadelphia. General interior alterations. Contract awarded to Pierce-Henon, Inc., Juniper and Pine streets.

Pennsylvania Construction News

Residence, Lewistown, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, L. W. Culbertson, on premises. Brick. Sketches in progress.

Residence and Office, Lewistown, Pa. Architects, Hamme & Witmanfi City Bank Building, York, Pa. Owner, Dr. S. W. Sweigart, Lewistown, Pa. Brick. Sketches in progress.

City Hall (add. and alts.), York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa.. Owners, City of York, G. M. Bollinger, City Hall, York. Brick, 1 story, 20x65 feet, slag roof, hardwood floors, electric light, metal lath, skylights, roof ventilators, general alterations. Owners taking bids.

Apartment (alts. and add.), York, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, Dr. C. C. Neff, 127 East



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Market street, York, Pa. Brick, 3 stories, 75x25 feet, slag roof, hardwood floors, electric light, tile work, general alterations. Architect taking bids due May 15th.

Sunday School and Parsonage, York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, Emmanuel Reformed Church, Rev. O. S. Hartman, 42 Freemont street, York, Pa. Brick, 2 stories and basement, 40x90 feet, concrete foundations, composition roof, maple floors, steam heat, electric light, metal lath, skylights, roof ventilators. Architect taking bids due May 15th.

Residence, Red Lion, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, H. McGenigan, Red Lion, Pa. Stone and stucco, 2½ stories, 37x45 feet, tile roof, hardwood floors, electric light, tile work. Owner is building.

Residence, Mifflintown, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, Dr. G. E. Wian, Mifflintown, Pa. Brick, 2 stories, 30x40 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Owner taking bids due as soon as possible.

Residence, East York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, E. P. Minick, York, Pa. Tile and stucco, 2½ stories, 50x30 feet, slate roof, hardwood floors, stone foundations, electric light, tile work. Architects taking bids due May 20th.

Store and Apartment, Glen Rock, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, Mrs. N. Sheffer, on premises. Brick, 3 stories, 30x70 feet, tile roof ,hardwood floors, vapor heat, electric light, tile work, roof ventilators, rolled steel skylights, plate glass, dampproofing. Owner is building by day work.

Residence (alts. and add.), Ardmore, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, T. Edward Ross, Ardmore, Pa. Stone, second story add., 16x20 feet, shingle roof, hardwood floors (heating reserved) ,electric light, tile work, plumbing. Architect taking bids due May 13th.

Bank Building (alts.), Central City, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, National Bank, Central City, Pa. General interior alterations, new partitions, mill work, bank fixtures, tile and marble work. Plans in progress.

Hospital, Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street. Owners, Cottage State Hospital, Philipsburg, Pa. Brick, reinforced concrete and castone, 4 stories and basement, 66x150 feet, slag roof, cement and composition floors, elevators, gypsum block partitions, ventilating system, ornamental iron work, hollow metal doors, tile work, vapor heat, electric lighting. Plans in progress. Architect will be ready for bids in one month.

Bungalow, Glenside, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Dr. Morton Kennedy, 2435 North Sixth street. Frame and stucco, 1½ stories, 30x36 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Garfield High School, Lebanon, Pa., $100,000. Architects, Ritcher & Eiler, Reading, Pa. Owners, Lebanon School District, W. R. Mack, secretary, Lebanon. Brick, fireproof, 2 stories and basement, 56x123 feet. Preliminary plans completed.

Residence, Hampton Pike, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Mr. De Temple, care of architect. Stone, 2 stories, 38x30 feet, slate roof, hardwood floors, electric lighting. Plans in progress.

Vaudeville Stage and Band Stand, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Reading Fair, J. B. Schaeffer, Mt. Penn, Reading. Reinforced concrete, 1 story, 80x53 feet. Plans in progress.

Apartment and Store, 1008 North Ninth street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Penn Trust Co., Mr. Kenney, Reading, Pa. Brick, 3 stories, 30x40 feet, Barrett specification roof, pine floors, electric light, tile work. Plans in progress.

Spectators' Gallery and Gymnasium, Lebanon, Pa. Architects, Ritcher & Eiler, Reading, Pa. O wners, Lebanon School District, W. B. Mack, secretary, Lebanon. Wood and steel, iron railing, hardware, glass, yellow pine floors. Owners ready for bids.

Residence and Garage, Overbrook, Montgomery County, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, William T. Galey, Jr., 6446 Sherwood road, Overbrook. Brick, 2 stories. Plans in progress. Too early for details.

Twin Residence, Palmyra, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Raymond Warner, Drexel Building, Philadelphia. Frame and stucco, 2½ stories, 38x43 feet, shingle roof, hardwood and pine floors, hot water heat, electric lighting. Owner will be ready for bids in a few days.

Masonic Temple, Mill street, Danville, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Masonic Hall Association, care of W. G. Pursel, Danville, Pa. Brick, 3 stories, 55x85 feet, steam heating, electric light, tile and marble, hardwood floors. Plans in progress.

Residences (16), Wynnefield, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, William F. Field, Fifty-fourth and Susquehanna avenue, Philadelphia. Stone and brick, 3 stories, 16x48 feet, slate, slag and tin roof, hardwood floors, hot water heat, electric light, tile and marble work, garages, 20x22 feet. Owner is ready for sub-bids.

Power House, Chambersburg, Pa. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Borough of Chambersburg, Chambersburg, Pa. Brick and steel, 1 story, 80x95 feet, slag roof, cement floors. Owners taking bids due May 15th.

Stores (3), Pottsville, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, S. S. Weiss, 15 North Centre street, Pottsville, Pa. Brick, 3 stories, 32x90 feet, slag roof, hardwood floors, electric light, tile work, steel sash and skylights, roof ventilators, fire doors, waterproofing, dampproong, structural iron work. Owner will take bids May 25th.

Residence, Ambler, Pa. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owner, James Diver, Ambler, Pa. Hollow tile and stucco, 2½ stories, 39x27 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, cement work. Owner taking sub-bids.

Neff House (alts. and add.) and Laundry Building, Sunbury, Pa. Architect, F. G. Fahnestock, Jr., Harrisburg, Pa. Owners, Neff & Neff, Sunbury, Pa. Hollow tile and plastering, new fourth and fifth floor, 118x38 feet, and laundry, brick and steel, 1 story, 29x17 feet, asbestos built-up roof, concrete and pine floors, hollow tile, metal lath (elevators and heating reserved), floor hardener, bond, hollow metal skylights, rolled steel sash, electric lighting. Architect taking bids due May 18th.

Residence, Fort Washington, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street. Owner, J. H. Little, Fort Washington, Pa. Hollow tile and stucco, 2 stories, 28x36 feet, slate roof, pine floors, hot water heat, electric light, tile work. Owner is taking general bids from local contractors.

Club (demolition and rebuilding), Tenth and Walnut streets, Reading, Pa. Architects, High & Huber, 11 North Fifth street, Reading ,Pa. Owners, Northeastern Republican League, Mr. Singerly, Tenth and Walnut streets, Reading, Pa. Brick, 1 story and basement, 54 feet 6 inches x 100 feet, slag roof, hardwood floors, vapor vacuum heat, electric light, metal lath, dumb waiter, terrazzo work. Owners ready for bids due May 15th.

Residence, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, Fritz Quittner, Glenside, Pa. Brick, 2½ stories, 36x86 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble work. Architect taking bids due May 11th.

Nurses' Home (add.), Harrisburg, Pa. Architect, J. A. Dempwolf, York, Pa. Owners, Harrisburg State Hospital, E. M. Green, M. D., superintendent, Harrisburg, Pa. Brick and stone, third floor addition to present building. Owners taking bids due May 15th at noon.

Club House, West Chester Pike, Highland Park, Pa. Architect, A. M. Kolp, Highland Park, Pa. Owners, White Apron Club, Highland Park, Pa. Brick, 2 stories, 112x56 feet, slag roof, cement and pine floors, hot water or steam heat, electric lighting, tile work, plumbing. Architect taking bids due as soon as possible.

Church, North Chester street, Hanover, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, St. Matthew's Lutheran Church, R. R. Bergstresser, 55 Frederick street, Hanover, Pa. Building Committee taking bids due May 19th at 6 P. M.

Residence and Garage, Overbrook, Pa. Architects, De Armond, Ashmead & Bockley, Franklin Trust Building. Owner, Joseph M. De Lone, Ardmore, Pa. Brick and stucco, 2½ stories, 72x26 feet, wing 30x20 feet, shingle roof, hardwood floors, vapor heat, electric light, tile and marble, cement work. Architects are taking sub-bids.

Pennsylvania Contracts Awarded

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa.

Lackawanna County, R-322, Scott Township, $78,902.63. Contract awarded to Michael Rosato & Sons Co., Scranton, Pa.

Lackawanna County, R-365, North Abington and Benton Townships, $202,111.50. Contract awarded to R. D. Richardson Const. Co., Scranton, Pa.

Venango County, R-207, Canal and Sugar Creek Townships, $148,477.25. Contract awarded to Samuel Gamble Co., Carnegie, Pa.

Monroe County, R-165, Ross and Hamilton Townships, $126,361.60. Contract awarded to Bethlehem Eng. & Con. Co., Bethlehem, Pa.

Erie County, R-295, Platea Borough, $49,759.13. Contract assigned to Penn Erie Const. Co., Erie, Pa.

Jefferson County, R-60, Reynoldsville Borough, Winslow and Pine Creek Township, $269,391.39. Contract awarded to Henry W. Horst Co., Rock Island, Ill.

Clearfield County, R-234, Houtzdale Borough, $38,500.15. Contract awarded to R. J. Delong, Williamsport, Pa.

Mercer County, R-238, Hickory Township, $44,251.08. Contract awarded to W. S. Morrison, New Brighton, Pa.

York County, R-216, Chanceford and Windsor Townships, $153,101.56. Contract awarded to Comerford Const. Co., Philadelphia, Pa.

York County, R-332, Springgarden, Windsor, Springettesburg Township, $157,636.45.

Contract awarded to Comerford Const. Co., Philadelphia, Pa.

Residence and Garage, Lincoln Drive, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, J. S. Secrist, York, Pa. Stone, 1½ and 1 stories, 55x85 feet, 20x30 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work. Contract awarded to I. Reindollar, York, Pa.

High School, Scranton, Pa., $646,800. Architect, G. W. Edson, Connell Building, Scranton, Pa. Owners, Scranton School District, care of Mr. Hughes, Scranton. Brick and steel, 3 stories, 179x263 feet, slag roof, oak and concrete floors, hollow tile, metal lath, roof ventilators, tile, marble and iron work (heating, lighting and plumbing separate bids.) Contract awarded to Sinclair & Grigg, Medical Arts Building, Philadelphia.

Bank Building, Media, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Media Title & Trust Co., Media, Pa. Brick, steel and granite and cut stone, 2 stories and basement, 44x84 feet, slag roof, cement and cork tile floors, metal lath, tile and marble work (heating, electric work and plumbing reserved), terra cotta. Contract awarded to Bowden Const. Co., 1935 Chestnut street.

Parochial School, Bethlehem, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Ursula's Roman Catholic Church, care of Rev. John P. Green, Bethlehem, Pa. Brick, cut stone and steel, 3 stories, 114x63 feet, slate roof, pine floors, metal lath and window guards, iron work, terrazzo work. Contract awarded to Garber & Cissell, Bethlehem, Pa.

Church and Sunday School, Swarthmore, Pa., $30,000. Architect, Walter D. Price, 119 South Fourth street.. Owners, Swarthmore Presbyterian Church, Swarthmore, Pa. Hollow tile and stucco, 1 story, 36x32 feet, slag and shingle roof, maple floors, hollow tile, metal lath, iron work, hollow metal sash, electric light (heating reserved). Contract awarded to J. W. Worrilow, 422 North Orange avenue, Media, Pa.

Apartment Houses (2), Brookline, Pa., $20,000. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Wadlow & Lyon, Brookline, Pa. Brick, 2 stories, 38x65 feet each, slag and asbestos shingle roof, pine floors, hot water heat, electric light, tile work, carpentry, mill work. Contract awarded to John P. Hallahan, 612 Chestnut street.

Garage, Coal street and Stein's Alley, Pottsville, Pa. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, John G. Royal, Pottsville, Pa. Brick and steel, 1 story, 45x35 feet, slag roof, cement floors, steam heat, electric light, terra cotta, hollow metal skylights. Contract awarded to F. W. Van Loon, Denckla Building, Philadelphia.

Store and Residence, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Morris Goldberg, Jenkintown, Pa. Brick, 3 stories, 118x25 feet and 63x40 feet, slag roof, oak and pine and composition floors, metal lath, tile and marble. Contract awarded to Frank W. Carman, Jenkintown, Pa.

Residence, Penrld, Pa. Architect, Eugene A. Stopper, 1507 Arch street, Philadelphia. Owner, Mrs. A. Constance Conover, Penfield, Pa. Stucco and metal lath, 2½ stories, 56x30 feet, slate roof, oak and pine floors, metal lath, tile and marble work, bond, iron work (heating, lighting and plumbing reserved). Contract awarded to Suburban Paving & Const. Co., Narberth, Pa.

Residence, Ridley Park, Pa., $12,000. Architect, private plans. Owner, H. A. McCarthy, Ridley Park, Pa. Frame and stucco, 2½ stories, 36x26 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Residence and Garage, Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, T. C. Christ, 925 North Fourth street, Reading, Pa. Brick, cut stone, 2 stories, 26x36 feet, shingle roof, pine floors, electric lighting. Contract awarded to Charles Schlegel, 2250 Perkiomen avenue, Reading, Pa.

Twin Residences (2 pairs), Wyomissing, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owners, Wyomissing Building & Savings Association, Wyomissing, Pa. Brick, 2½ stories, 30x56 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Contract awarded to Charles Schlegel, 2250 Perkiomen avenue, Reading, Pa.

Garage, Show Room and Apartment, Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owners, J. M. Kalbach Co., 24 South Fourth street, Reading, Pa. Brick, steel and concrete, 3 and 2 stories, 60x203 feet, hardwood and concrete floors, steam heat, electric light, metal lath, tile and marble work, steel sash, skylights, roof ventilators, terra cotta, Carey roof. Contract awarded to Charles Schlegel, 2250 Perkiomen avenue, Reading, Pa.

Residence, Brookline, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Charles Lindgren, Meoirn, Pa. Stone, hollow tile and stucco, 2½ stories, 26x61 feet, slate roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Henry Allan, Brookline, Pa.

Bungalow, Brookline, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Albert Townsend, 1452 South 51st street, Phila. Frame and stucco, 1½ stories, 32x31 feet, shingle roof, pine floors, warm air heat, electric light. Contract awarded to William G. Kennedy, 1667 South Yewdell street, Philadelphia.

Dormitory, Marple, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Peter & St. Paul Cemetery, Marple, Pa. Hollow tile and plaster, 2 stories, 54x98 feet, slag roof, pine floors, electric lighting. Contract awarded to James Johnson, 1721 Ludlow street, Philadelphia.

Residence, Sedgwick Farms, Phila. Architect, H. Rex Stackhouse, 129 S. Fourth street. Owner, Miss M. E. Warner, care of architect. Stone, 2½ stories, 45x29 feet, wing 13x24 feet, slate roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Residence (add.), Berwyn, Pa. Architect, William Wayne, Jr., 1501 Spruce street, Philadelphia. Owner, Henry L. Collins, Berwyn, Pa. Stone, 2½ stories, 15x30 feet, slate roof, oak and pine floors. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa.

Clearfield County ,A-1724, Bradford Township, $118,848.64. Contract awarded to Johnson & Kearns, DuBois, Pa.

Clearfield County, R-234, Coalport Borough, $37,816.06. Contract awarded to Thomas J. Strickler, Huntingdon, Pa.

York County, R-250, Newberry, Fairview Townships and Lewisberry Borough, $152,-062.11. Contract awarded to McInerney & McNeal, Easton, Pa.

Mercer County, Appli. 1751, Delaware Township and Fredonia Borough, $78,681.10. Contract awarded to W. S. Morrison, New Brighton, Pa.

Crawford County, R-207, East Fairfield and Wayne Townships and Cochranton Borough. $318,619. Contract awarded to R. D. Baker Co., Detroit, Mich.

New Jersey Construction News

Power House and Kitchen Addition, Absecon, N. J. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Seaview Golf Club, C. H. Geist, President, Land Title Building, Philadelphia. Power house, brick, 1 story, 40x50 feet, kitchen, size undecided. Plans in progress.

Department Store, Broadway and Spruce streets, Camden, N. J. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, Harry Pinsky, on premises. Limestone, brick and cut stone, 5 stories, 56x92 feet, slag roof, maple floors, freight and passenger elevator, plate glass, flush bulks, tile and marble, metal lath, steam heat, electric light. Plans in progress.

State Hospital (add.), Trenton, N. J. Architects, Department of Institutions and Agencies, Trenton, N. J. Owners, State of New Jersey, care of Warden Natchley, on premises. Low bidders: James H. Morris & Co., Broad and Hudson streets, Trenton, $238,-778; Charles J. Smith, 202 Academy street, Trenton, N. J., $242,500. Plumbing, Deistlave & Richardson, Trenton, N. J., $19,975. Heating, Jaehnig & Peoples, Trenton, N. J., $15,-771. Electric work, Drago Electric Co., Trenton, N. J., $5,865.

Service Station and Garage, Main Road, Hammonton, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Hammonton Auto Station, Hammonton, N. J. Tile, plaster, 1 story, 26x30 feet, tile roof, concrete floors, electric lighting. Architect ready for bids due May 6th.

Show Room, 1388 Haddon avenue, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, William Davis, Collingswood, N. J. Brick, concrete and steel, 1 story and absement, 45x100 feet, concrete floors, steam heat, electric light, Barrett specification roof, tile work, rolled steel sash. Architects have received bids.

Theatre (alts.), Pitman, N. J. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, Hunt's Theatres, Inc., 1220 Vine street. General remodeling. Plans about to be started.

Residence, Pennington, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, S. S. Chatten, Post Office, Building, Trenton, N. J. Brick, stucco, 2½ stories, 8 rooms, slate roof, hardwood floors, hot water heat, electric light. Plans in progress.

Residence and Garage, Whittier street and Belmont Circle, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, W. C. Billman, 1320 West State street, Trenton, N. J. Stone, stucco, 2½ stories, 82x 34 feet, garage 1 story, 20x20 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble work. Architect taking bids, due May 8th.

Residence, Morrisville Heights, Trenton, N. J. Architect, Walter Hankin, 39 West State street, Trenton, N. J. Owner, Wm. R. Dollon, care of architect. Frame, 2½ stories, 36x24 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids, due May 3rd.

Club House, Grand and Beatty streets, Trenton, N. J., $30,000. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Polish Gymnastic Society, care of

architect. Brick, 3 stories and basement, 25x95 feet, slag roof, hardwood floors, steam heat, electric light, tile work, metal lath, safety treads, roof ventilators, waterproofing. Architect taking bids, due May 8th.

Church, Brooklawn, N. J., $30,000. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owners, Methodist Episcopal Church, Brooklawn, N. J. Hollow tile, 1 and 2 stories, irregular size, slate roof. Preliminary plans in progress.

Warehouse, Second and Pine streets, Camden, N. J. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owner's name withheld. Brick, 1 story, 40x180 feet, slag roof, cement floors, electric lighting. Plans in progress.

School No. 4 (Junior High), Cadwallader Park, N. J. (Trenton). Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, School Board of Trenton, Trenton, N. J., R. O. Belville. Brick, fireproof. Architect selected.

Junior High School, No. 4, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owners, Trenton School Board, R. C. Belville, Secretary, 9 S. Stockton street, Trenton, N. J. Fireproof, 2 stories. Too early for details.

School for Colored, Trenton, N. J. Architect, Wm. Slack, St. Regis Theatre Building, Trenton, N. J. Owners, Trenton School Board, R. C. Belville, Secretary, 9 S. Stockton street, Trenton, N. J. Brick, fireproof. Sketches in progress.

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Nelson C. Denney, care of architect. Cinder block, 2½ stories, 37x29 feet, shingle roof, hot water heat, electric light. Low bidder, A. J. Voegtlin, Thirty-first and Westfield streets, Camden, N. J.

Y. W. C. A. Building, Stevens street, Camden, N. J., $300,000. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Camden Y. W. C. A., Mrs. Devlin, Merchantville, N. J. Brick, fireproof, 3 stories and basement. Architects selected.

Residences (4), Camden, N. J. Architect, H. M. Moffett, 531 Market street, Camden, N. J. Owner's name withheld. Brick, 2 stories, 22x30 feet, slag roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Store and Apartment, Collingswood, N. J. Architect, H. M. Moffett, 531 Market street, Camden, N. J. Owner, Mrs. N. E. Conway, Collingswood, N. J. Brick, 3 stories, 18x87 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

School (add.), Troy avenue, Ventnor, N. J., $85,000. Associate architects, V. B. Smith & J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, W. Zimmerman, secretary, Guarantee Trust Building, Atlantic City, N. J. Brick, 2 stories and basement, 9 rooms, slag roof, hardwood floors, metal lath, rolled steel skylights, roof ventilators, waterproofing and dampproofing (heating, electric lighting and plumbing reserved). Plans in progress.

Residence, Haddonfield, N. J. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, name witheld. Frame, 36x45 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans completed. Will take bids in a few days.

Residence and Garage, Ventnor, N. J., $30,000. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. Brick, 3 stories, irregular size, slate and tile roof, hardwood floors, hot water heat, electric light, tile and terrazzo work. Sketches.

House, Ventnor, N. J., $10,000. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City, N. J. Owner, J. T. Corbett, Columbus, Ohio. Frame, 2 stories and basement, 28x40 feet ,slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Hotel Apartments, Wildwood, N. J. Architect, H. N. Moffett, Camden, N. J. Owner, name withheld. Brick, 6 stories, 110x150 feet. Plans in progress. Too early for details.

Stores (5) and Apartment, Pleasantville, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, J. O. Flutie, Pleasantville, N. J. Brick, 2 stories, 85x65 feet, slag roof, hardwood floors, hot water heat, electric light, metal ceilings, tile work. Plans in progress.

House (add.), Oriental and Connecticut avenues, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, Louis Satanov, Guarantee Trust Building, Atlantic City, N. J. Brick, 4 stories, 26x20 feet, slag roof, pine floors, electric light, general interior alterations. Plans in progress.

Hospital (add.), Ohio and Michigan avenues, Atlantic City, N. J. Associate architects, H. A. Stout and J. V. Mathis and Hudson Vaughn, Atlantic City, N. J. Owners, Atlantic City, care of E. L. Bader, City Hall, Atlantic City. Frame and metal, 1 story, 40x130 feet, slag roof, pine floors, electric light, roof ventilators. Plans in progress.

Pavilion, Bathhouse and Swimming Pool, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Atlantic City, L. Steinbrecker, City Hall, Atlantic City, N. J. Concrete, frame, 2 stories, 250x100 feet, prepared roof, concrete and pine floors, electric light, laundry equipment, waterproofing. Owners ready for bids.

School (add.), Elridge Pike, Lawrencetown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Lawrence Township School Board, Edward Pearson, secretary, Lawrence, N. J. Brick, 2 stories and basement, 56x62 feet, steam heat, electric light, slate and slag roof, hardwood floors, hollow tile, metal lath, tile work, safety treads ,roof ventilators, steel sash, fire doors, metal ceilings, dampproofing, steel stairs. Plans in progress.

Lodge Building, Trenton, N. J., $300,000. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Knights of Columbus, G. W. Goff, 221 North Warren street, Trenton, N. J. Brick, fireproof, 3 stories, 75x80 feet, 80x120 feet, slag roof, hardwood floors, hollow tile, steam heat, electric light, tile and marble work, hollow tile, elevators, safety treads, roof ventilators, skylights, fire doors, waterproofing, iron stairs. Architect ready for bids.

Apartment, Vassar and Atlantic avenues, Atlantic City, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owner, Frank Curran, 2023 Richmond street, Philadelphia. Brick, 3 stories and basement, 42x76 feet, slag roof, tile and hardwood floors, hot water heating, electric light, tile and marble work. Owner will build.

Houses (6), Vermont and Drexel street, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, Joseph Shapiro, Rhode Island and Atlantic avenues, Atlantic City. Brick, 2 stories, 50x60 feet, slag roof, pine floors, hot water heat, electric light, tile work. Owner is sub-letting.

Apartment, State street, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Yarkov & Shenkman, Guarantee Trust Building, Atlantic City, N. J. Brick, 3 stories, 85x35 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath. Owner will build.

Hotel, Garage and Gasoline Service Station, Longport, N. J. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, John T. Walsh, care of architect. Brick, hollow tile, steel and stucco, 2½ stories, 30x60 feet, and 1 story, 22x24 feet, shingle roof, hardwood and composition floors, hot water heat, electric light, waterproofing. Architect is ready for bids due May 23rd.

Garage, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, William Weinmann, West Hanover and Barnes streets, Trenton, N. J. Brick and steel, fireproof, 2 stories, 66x120 feet, slag roof, concrete floors, steam heat, electric light, metal lath, freight elevators, roof ventilators, steel sash, skylights, fire doors, floor hardener. Owner and architect taking bids due as soon as possible.

Church (alts.), Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Presbyterian Church of Moorestown, N. J. General alterations, slate roof, hardwood floors, plumbing, electric lighting. Architect taking bids due May 13th at noon.

Residence and Garage (alts. and add.), 6119 Monmouth avenue, Atlantic City, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City, N. J. Owner, M. H. Goodin, Adelphia Hotel, Philadelphia. Hollow tile and stucco, 2 stories, 38x53 feet, Spanish tile roof, hardwood and concrete floors, hot water heat, electric light, tile and marble work, incinerator. Architect taking bids due May 15th.

Residence and Garage, Pitman, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Peter S. Scott, Pitman, N. J. Brick and frame, 2½ stories, 40x29 feet, and 1 story, 21x21 feet, slate roof, oak and pine floors, metal lath, cement work, tile and marble, iron work (heating and lighting reserved). Architect taking bids due May 15th at noon.

New Jersey Contracts Awarded

Church (alts. and add.), Pitman, N. J., $12,200. Architect, Arthur B. Gill, 328 Market street, Camden, N. J. Owners, Pitman Baptist Church, care of architect. Concrete block, 1 story and basement, 28x56 feet, 28x28 feet, steam heat, electric light, pine floors. Contract awarded to Arthur S. Hoffman, Pitman, N. J.

Library, Vincenttown, N. J. Architects, Stewardson & Page, 315 South Fifteenth st., Philadelphia. Owners, Sally Stretch Keen Memorial Library, on premises. Brick and cut stone, 1 story, 45x26 feet, slate roof, pine floors, metal lath, tile work, bond, iron work, pipeless heater. Contract awarded to George W. Shaner & Son, Palmyra, N. J.

Store and Office (add.), Montgomery and Hanover streets, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Fitz Charles Dry Goods Company, on premises. Brick, 5 stories, 25x63 feet, slag roof, pine floors (electric work, heating and plumbing reserved), metal lath, elevators. Contract awarded to J. H. Morris & Co., Broad and Hudson streets, Trenton, N. J.

Laundry (add.), East State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton Rough Dry Laundry, East State street, Trenton, N. J. Brick, 1 story, 25x100 feet, slag roof, concrete floors, electric lighting, rolled steel skylights, roof ventilators. Contract awarded to J. H. Morris & Co., Broad and Hudson streets, Trenton, N. J.

Garage, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, Joseph Azul, care of architect. Steel and brick, 1 story, 50x100 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Contract awarded to Butchar & Gars, Trenton, N. J.

Stores (4), Federal street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Bleakley Bros., care of architects. Cinder block, plaster, 1 story, 50x85 feet, slag roof, pine floors, pipeless heat, electric light, plate glass. Contract awarded to Geo. Bachman, 19 North Thirtieth street, Camden, N. J.

Detention House, Camden, N. J., $7,000. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Camden County Board of Freeholders, Chas. F. Wise, chairman, Court House, Camden, N. J. Fireproof, 3 stories, 16x16 feet, vapor heating, electric lighting, tile work, reinforced concrete floors. Contract awarded to Albert H. Moorshead, 67 Laurel street, Philadelphia.

Theatre, Piers and Apartments, Wildwood, N. J. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Wildwood Pier & Realty Co., Wildwood, N. J. General alterations and additions, frame and timber. Contract awarded to Wm. Bond, Wildwood, N. J.

Residence and Garage, Thirty-first and Park avenue, Woodcliffe, Bergen County, N. J. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Dr. Fred S. Pindar, 767 Bergenlein avenue, West New York, N. J. Stone, brick, hollow tile, stucco and shingle, 2½ stories, 35x55 feet and 22x28 feet, shingle roof, hardwood floors, cement work, hot water heat, electric lighting, tile work and brick paving. Contract awarded to Rudolph J. Vrana, Hudson Heights, N. Y.

Apartments (24), East side of Illinois avenue, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Bessie Crailsheimer, Fos Apartment, Atlantic City. Brick, steel and cut stone, 3 stories, 50x150 feet, slag roof, hardwood floors, vacuum vapor heating, electric lighting, tile and marble work, incinerator, refrigeration, terra cotta. Contract awarded to Philip Hannum, Georgia and Thoroughfare, Atlantic City, N. J.

Residence (alts.), 109 South Vassar Square, Atlantic City, N. J. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, James Stuart Lowry, Baltimore, Md. Frame and brick, canvas roof, gas ranges, slate roof, heating and lighting extensions, tile work, painting, plumbing. Contract awarded to R. Somers Leach, Atlantic City, N. J.

Cottage, Atlantic City, N. J. Architect, L. R. Barber, Guarantee Trust Building, Atlantic City, N. J. Owner, W. L. Morse, Guarantee Trust Building, Atlantic City, N. J. Hollow tile, stucco, 2 stories, 33x42 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to J. Mathis & Son, Guarantee Trust Building, Atlantic City, N. J.

Garage, Atlantic City, N. J. Architect, L. R .Barber, Guarantee Trust Building, Atlantic City, N. J. Owner, Owen Gravitt M,issouri and Atlantic avenues, Atlantic City. Brick, fireproof, 1 story, slag roof, concrete floors, electric light. Contract awarded to J. Mathis Son, Guarantee Trust Building, Atlantic City, N. J.

Residence, Parkside avenue, Trenton, N. J. Architect, private plans. Owner, C. P. Hutchinson, 494 West street, Trenton, N. J. Frame, 2 stories, 24x35 feet, slate roof, pine floors, electric light. Contract awarded to R. F. Johnston, 326 Rutherford street, Trenton, N. J.

Residences (2), Bellevue avenue, Trenton, N. J., $11,000. Architect, private plans. Owners, H. Vine & J. Burley, Trenton, N. J. Brick, 2½ stories, 25x29 feet, slag roof, pine floors, electric light. Contract awarded to L. L. Sweeney, 666 Rutherford street, Trenton.

Delaware Construction News

Storage House, Thatcher street, Wilmington, Del., $6,500. Architect, private plans. Owners, Street and Sewer Department, Mr. F. Pearson, Wilmington, Del. Brick, concrete and steel, 1 story, 30x85 feet, slag roof, concrete floors, electric lighting. Owners will build.

Department Store, Pennsgrove, Del. Architect, John Canning, Jr., 11 East Thirteenth street, Wilmington, Del. Owner, M. D. Poland, Pennsgrove, Del. Brick, steel and millwork, 2 stories, 98x33 feet, slag roof, hardwood floors, steam heat, electric light, tile work, plate glass. Architect has received bids.

Delaware Contracts Awarded

Bank Building (alts and add.), Wilmington, Del., $28,000. Architects, Brown & Whiteside, Du Pont Building, Wilmington, Del. Owners, Artisans' Bank, Wilmington, Del. Brick, slag roof, tile and marble work, (plumbing and heating reserved). Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Parsonage and Community Building (alts. and add.), Harris street, Wilmington, Del. Architect, private plans. Owners, Harris St. M. E. Church, Wilmington, Del. Brick, cut stone, 1 story and basement, 90x50 feet, slate roof, oak floors, hot water heat, electric light, tile and marble work, sheet metal lath. Contract awarded to Smyth Const. Co., 826 Orange street, Wilmington, Del.

Residence, 2602 North Harrison street, Wilmington, Del., $7,500. Architect, private plans. Owner, John Read, Jr., 617 West Twenty-fifth street, Wilmington, Del. Brick, 26x30 feet, slate roof, hot water heating. Contract awarded to Reed Bros., 702 Orange street, Wilmington, Del.

Miscellaneous Construction News

Jefferson High School (Senior), Roanoke, Va. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, Board of Education, Roanoke, Va. Preliminary plans in progress. Architect selected.

Residence, Winston-Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. A. Kent, Winston-Salem, N. C. Brick and hollow tile, 2½ stories, 42x50 feet, slate or tile roof, oak floors, vapor heat, electric light. Revised plans in progress.

School, Troy, N. Y. Architects, Lawrie & Lappley, Cotterel Ebner Building, Harrisburg, Pa. Owners, care of architects. Architects selected. Too early for details.

Miscellaneous Contracts Awarded

Garage and Court Yard, Kennebunkport, Me. Architects, Seeburger & Robenold, 1524 Chestnut street, Philadelphia. Owner, Atwater Kent, 4937 Stenton avenue, Philadelphia. Frame, 2 stories, 24x50 feet, shingle roof. Contract awarded to A. H. J. Clough, Kennebunkport, Me.

Church, North avenue and Carolina avenue, Baltimore, Md. Architects, associated, Roy Pratt, 322 Charles street, Baltimore, Md., and Heacock & Hokanson, Bailey Building, Philadelphia. Owners, North Avenue Presbyterian Church, care of Rev. Clarence E. Wise, Baltimore, Md. Stone, 48x84 feet, slate roof, electric light, ornamental iron work, steam heating. Contract awarded to Consolidated Eng. C., Baltimore, Md.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 8, 1922.—SEALED PROPOSALS will be opened in this office at 3 P. M., June 5, 1922, for the construction of the United States Post Office at Front Royal, Va. Drawings and specifications may be obtained from the Custodian of the site at Front Royal, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

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Asbestos Shingle, Slate and Sheathing Co.,
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Emack, The John D. Co. Otis Bldg., Phila.

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Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

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Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

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Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

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Mitchell Bros. .....2125 Race St., Phila.

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Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

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Weiss, George, & Co. .....1211 Mascher St., Phila.

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Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
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Massiah, Frederick..Juniper and Cypress Sts., Phila.

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Pralatt Equipment Co. .....Drexel Bldg., Phila.

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Pearce Fireproof Co.....1345 Arch St., Phila.

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Woodoleum Mfg. Co. .....133 Arch St., Phila.

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Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Donnelly & Co. .....319 Vine St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR HARDENER.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

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Richardson & Boynton Co.....1332 Arch St., Phila.

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Kane & Co. .....1226 N. 9th St., Phila.

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Pralatt Equipment Co. .....Drexel Bldg., Phila.

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Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

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Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
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Richardson & Boynton Co.....1332 Arch St., Phila.

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Keasbey & Mattison Co.....1927 Market St., Phila.

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Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....319 Vine St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LATHER (Wood and Metal)
Whiteman, C. S. .....717 Walnut St., Phila.

LEVELS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
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Weil, J. H., Co. .....1304 Arch St., Phila.

LIGHT IRON CONSTRUCTION.
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Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.

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Haney-White Co. .....17th and Glenwood, Phila.
Irwin, James M., & Co. .....976 N. 8th St., Phila.
Kugler, Geo. W., & Sons Co.,
915 New Market St., Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

MARBLE MOSAIC.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

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Donnelly & Co. .....319 Vine St., Phila.
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OFFICE PARTITIONS.
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Truscon Laboratories.....1432 S. Penn Square, Phila.

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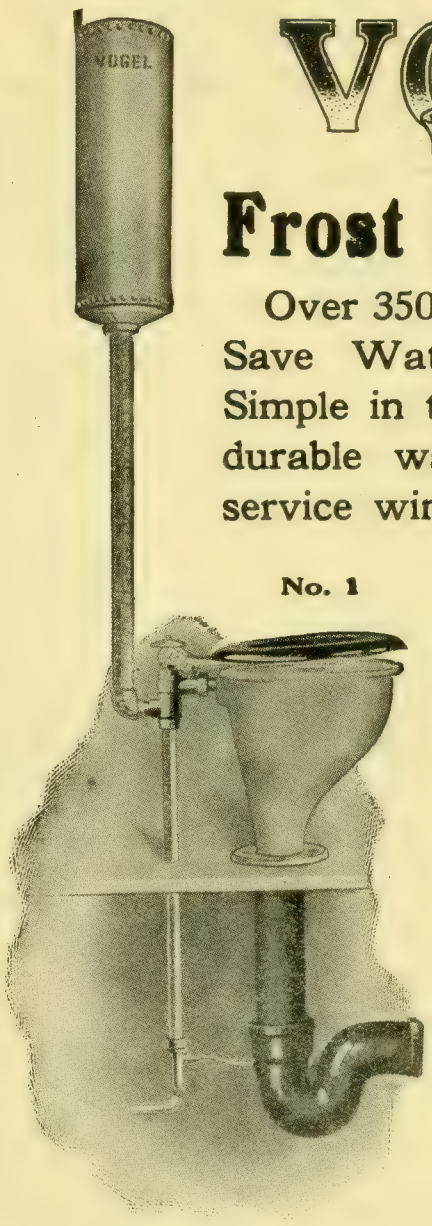
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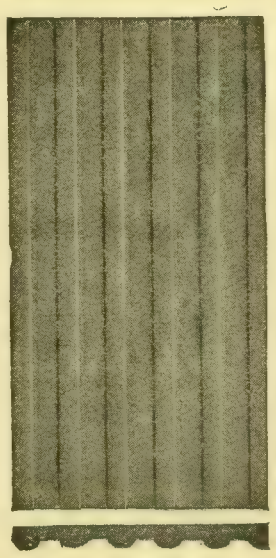
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May 17, 1922

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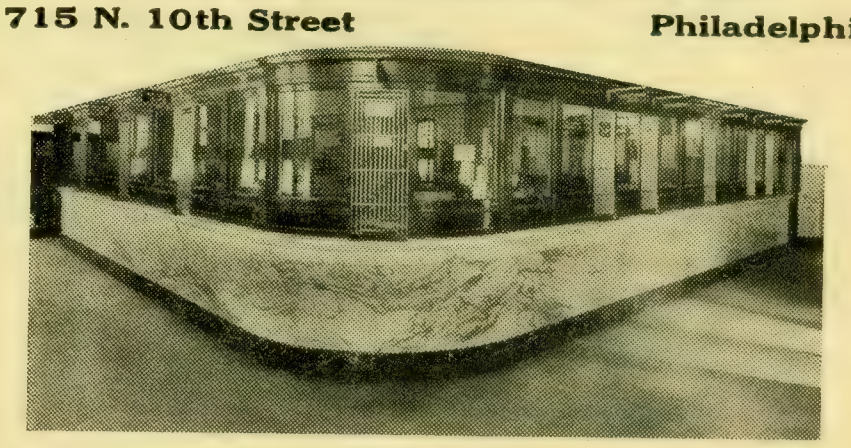
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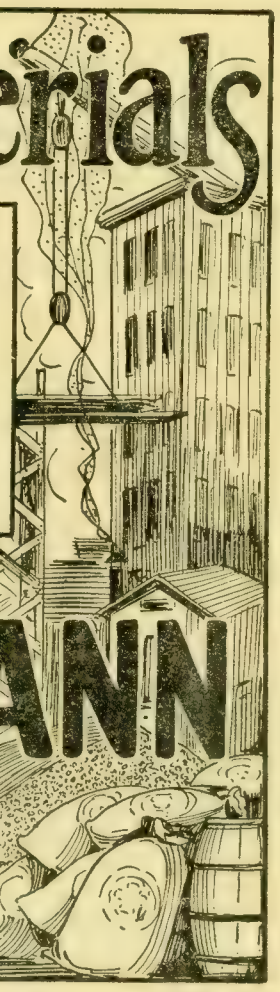


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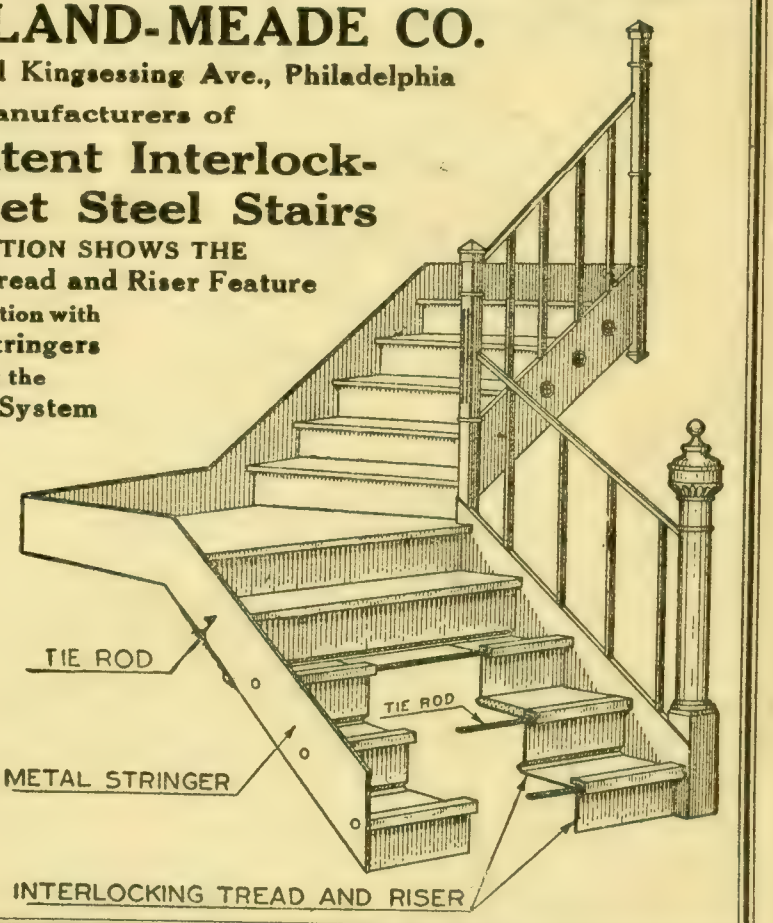
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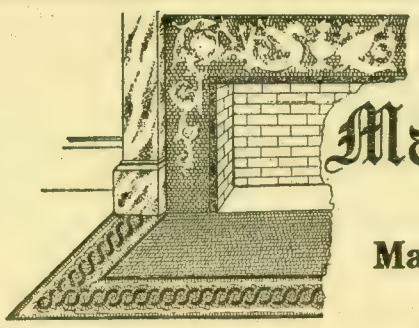
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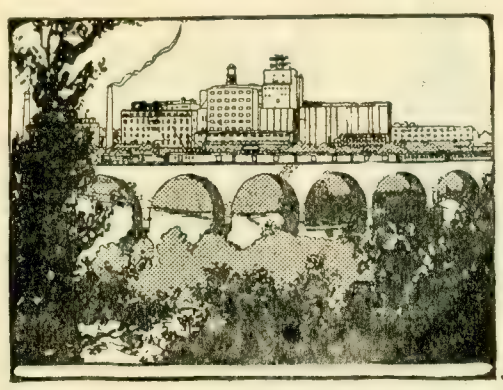
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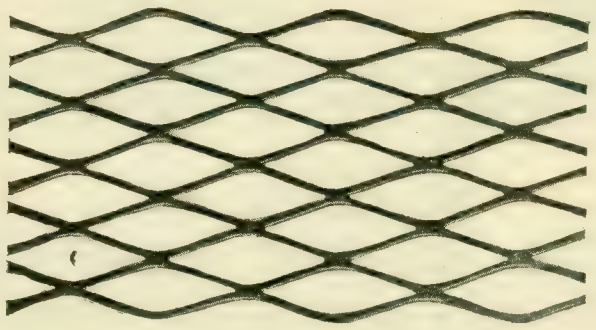
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May 17, 1922

BUILDERS' GUIDE

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As The Editor Sees It

UNITING THE CONSTRUCTION INDUSTRY FOR THE COMMON GOOD

Secretary HOOVER to Preside at Formal Organizing Meeting—FRANKLIN D. ROOSEVELT Will Accept Presidency of New National Council

—By

E. J. RUSSEL, of the Executive Committee, American Institute of Architects and N. F. HOGGSON, of the Executive Board Associated General Contractors of America

FOR the first time in the history of American industrial development a great industry has united all its elements—manufacturers, labor, and the professional branches—in a great effort to raise the standards and efficiency of the industry and improve the service which it renders the public. The nearest precedent is that furnished by the selection of Will H. Hays as arbiter of the motion picture industry, but the American Construction Council, on which the organization details are now being completed, goes much farther. It dips down into the industry and brings together for conference, for betterment of understanding and for common action the architects, the engineers, labor contractors, materials' manufacturers and dealers, bankers and insurance men—all elements concerned with building work of any description and with the construction of public works, railroads, bridges, irrigation works, etc.

It is stipulated that all the work of the Council must square with the public welfare and so dominant has this idea been in the preliminary conferences that Secretary of Commerce Hoover, seeing the benefits that will result, has taken the responsibility of presiding at the formal organizing meeting in Washington, D. C., June 19th and 20th, and Franklin D. Roosevelt, of New York, former Assistant Secretary of the Navy, has agreed to accept the presidency of the organization.

The possibilities of the new organization are tremendous. If the reader were asked to tell what construction really is, the reply would probably be, "housing" or "plant construction and commercial building" or "highways and bridges," "railroads and canals" or perhaps "terminals for railroads and ship traffic or irrigation and reclamation projects." Yet all of these are merely divisons or classifications of a single industry and should always be included in the thought of the whole.

Instead of thinking of the building of houses as the individual expression of the fancy of the individual citizens, of the building of highways and railroads as merely the means of an industry we call transportation, of factory building and hydro-electric construction as isolated enterprises embarked in by isolated groups of individuals for private gain, we must think of construction as we do of agriculture, or of mining, or of manufacturing—as one of the great creators of permanent wealth, as one of the foundation stones in our civilization on which our progress is built.

Already indications of this are evident. Construction reports have become equal to crop reports as barometric indicators of the material prosperity of the country. On their rise and fall depends the well-being of millions of our people, the success of great enterprises, the future welfare of our citizens.

The popular belief is that American industry is divided into four basic in-

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dustries, (1) agriculture, (2) manufacture, (3) transportation and communication, (4) mining and forestry. Such a classification leaves out of consideration, however, what has been demonstrated after investigation to be the second most important industry in the country, namely construction. When considered from the standpoint of the yearly volume and money involved, this comes second only to agriculture and is among the first of all industries when expressed in terms of the labor. Investigation has shown that the number of workers, who together with their families depend upon the construction industry for a livelihood totals approximately 11,000,000 persons. It was conservatively estimated that 24% of our annual capital accummulation and over 50% of our national savings are absorbed by this great industry every normal year. Approximately nine-tenths of all iron, copper and zinc and 95% of all the lead produced in this country are consumed in construction.

The support given to Agriculture and to Trade by the annual expenditures of this great number of persons is almost too apparent to need discussion. The following table shows the way in which over $5,000,000,000 are disbursed, and gives an excellent idea of the wide range of benefit from the expenditure of wages paid in the Construction Industry. The proportions are those established by the National Industrial Conference Board.

Rent	$ 756,500,000
Fuel and light	214,500,000
Food	1,598,500,000
Clothing	663,000,000
Medical Attention	113,000,000
Reading matter	41,500,000
Church and charity	46,500,000
Furniture, furnishings and general supplies	126,000,000
Recreation	229,500,000
Savings	600,000,000
Unclassified	601,000,000

Yet in this mighty industry each element has, with rare exceptions, acted by itself, looking after its own interest, neglectful generally of the rights of the other elements and, often indifferent to the rights of the public.

Since the war this lack of co-ordination, of actual understanding and of consideration of the service rendered the public has stood out more strongly than before. During the war it was necessary to postpone all but essential construction, leaving us at the close of 1919 with an enormous deferred volume of construction work. In 1920 we began to catch up, to fall back again in 1921; today we have a deferred total valued by students of the industry at $10,000,000,000. Of the housing shortage, an important part of this deferred construction, the general public is well aware. Yet the shortage exists in every line of construction. We have not enough office buildings or schools, railroads or highways, while sewerage, water-supply systems and paving are far behind present needs. This shortage has put great pressure on every branch of the industry and has forced it to study anew its relationship to the whole. Moreover, the public has lacked confidence in the fairness of building costs and this has added to the pressure put upon the industry. Not only has each of the elements been re-examining its position and responsibility but efforts at co-ordinated work have been made. The National Federation of Construction Industries, a war-born organization, was continued after the Armistice in an effort to pull the industry together nationally and has achieved some excellent results. The Building Congresses with notable successes at New York, Seattle and Portland, Ore., attacked the problem locally. The National Board for Jurisdictional Awards representing labor, contractors, architects, and engineers, and the Joint Conferences of Engineers, Architects and Contractors on Estimating and on Standard Contracts have each tackled specific problems common to the whole industry and demonstrated the need as well as the practicability of co-operation for the good of all.

The way has thus been well prepared for the great national movement now launched. Nearly every one of the 250 national associations in the industry has tested out its own work and learned from experience the large amount of duplicate effort and its inability to grapple effectively with the problems that extend beyond its special field. They are ready and eager to have these common problems taken over by an all-embracing organization so that there may be the elimination of duplication and more resultful work. They appreciate that the public demand will no longer wait and that only through a broad, virile and effective movement, dedicated to the improvement of the service which construction renders the community, states and nation can the industry gain public confidence. Through co-ordinated action there is opportunity for tremendous waste elimination, assuring to the public more and better homes, public buildings, railroads, bridges, etc., for their construction expenditure.

It is these tremendous possibilities, in dedication to the public service and elimination of waste, that have fired imaginations of Mr. Hoover and Mr. Roosevelt, and induced them to accept positions of leadership in the movement.

While the organizers have a large program of work mapped out, efforts will be concentrated at the start on a few of the more outstanding problems. Chief among these is the establishment of a code of ethics that will be universally accepted in the industry. Due to a small minority the whole business of construction is, as Mr. Hoover expressed it recently, in addressing the industry, "under a great cloud and the moral ethics of the business are challenged daily throughout the entire country." Mr. Hoover added these significant words:

"I am convinced that these things can never be cured by legislation or by jails. They can be cured by the resolute action of the vast majority of honest men who form the professions, and it has now become vital in the country's interests that this should be undertaken."

The organizers consider this message from Mr. Hoover a charter for their work. It is in this spirit that the ethical work will be undertaken in order that the industry may stand square with the public and that all practices inimical to the public welfare may be eliminated.

Statistics are much needed so that the industry may operate intelligently. While there are partial statistics collected by many sources, they have not been brought together and interpreted in the light of all the facts.

Local groups at New York, Seattle and Portland have very successfully brought together all elements of the industry for a better understanding of the local building situation and have accomplished much good. The new Council will promote similar local activities in other centers.

Another great problem stands ready for effective handling. There is a shortage of building mechanics, and the labor organizations need help in establishing the necessary apprenticeship system. Mr.

(Continued on page 323)



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Garage (alts. and add.), 430 Allen Lane, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street. Owner, Francis Bracken, on premises. Stone, 2½ stories, 16x23 feet, shingle roof, cement work. Architect taking bids due May 22nd at noon.

Shelter and Wading Pool, Nineteenth and Wiley streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation. Concrete, 69x33 feet, shelter surrounding pool, shingle asbestos roof, concrete floors, bond, waterproofing, iron work. Plans completed. Will take bids in a few days.

Hospital (alts.), Thirty-fourth and Pine streets. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Health, City Hall. Demolition, masonry, carpentry, mill work, plastering, composition and cork tile floors, painting, glazing, hardware. Plans completed. Will be ready for bids in a few days.

Sunday School (add.), Germantown avenue and West Butler street, $9,000. Architect, George C. Baum, 1509 Arch street, Philadelphia. Owners, St. Paul's Church, care of Wesley DeFrehn, 3824 North Fifteenth street. Brick, 1 story, 22x60 feet, slag roof, maple floors, steam heating, electric lighting. Contract awarded to Frank V. Radomski, 1726 Juniata street.

Stores and Apartments (alts. and add.), 6515-17 Woodland avenue. Architect, H. M. Pedrick, Darby Post Office Building, Darby, Pa. Owners, A. and M. A. Keller, on premises. Brick, cut stone and steel, 3 stories, 75x100 feet, slag roof, oak and maple and composition floors, terra cotta, iron work, metal lath, tile work. Architect taking bids due May 17th.

Residence (alts.) to Apartments, 3150 North Broad street. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Dr. Bratley Longshore, on premises. Carpentry, mill work, plastering, painting, glazing, tile work, iron work. Architect taking bids due May 22nd.

Belmont Central Building (alts. and add.), 5160 Lancaster avenue. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 2 stories, 32x39 feet, slag roof, composition floors, hollow tile, damproofing, iron work, marble work, steam heat, electric light. Architect taking bids due May 22nd.

Locker House and Residence, Coulter street, Germantown. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Germantown Friends' School, on premises. Hollow tile, stucco, brick and cut stone, 2½ stories, 66x26 feet, shingle roof, pine floors, hollow tile, waterproofing, iron work, bond, metal lath, hot water heat, electric lighting. Architect taking bids due May 17th.

Residences (24), (4) Pratt street, East of Castor road, (12) Kenwyn, East of Castor road, (8) Dyre street, East of Castor road, Philadelphia. Architect, private plans. Owner, Harry R. Moyer, 2032 East Allegheny avenue, Philadelphia. Brick, 2 stories, 16x43 feet, hot water heat, electric light. Owner will build.

Stores and Dwellings (2), 6221 Rising Sun avenue. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Edward J. Simons, on premises. Brick, 2 stories and basement, 20x52 feet, hardwood floors, slag roof, hot water heat, electric lighting. Plans in progress.

Bakery (add.), Knorr and Torresdale avenue, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street. Owner, B. Nason, on premises. Brick, 2 stories and basement, 30x30 feet, slag roof, concrete floors, pine floors, electric lighting. Revised plans in progress.

Store and Dwelling (alts. and add.), Southwest Corner Twenty-fourth and Allegheny avenue. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Charles W. Hopper, on premises. Stone add., 2 stories, 16x12 feet, brick, slag roof, pine floors, electric work, heating extension. Plans in progress.

Church (add.), 2324 Germantown avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Fifth Moravian Church, on premises. Stone and brick, 1 story and basement, 20x60 feet. Plans in progress. Too early for details.

Factory, Holmesburg, Philadelphia. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owner, name withheld. Concrete, brick and steel, 2 stories, 40x105 feet, slag roof, electric lighting. Plans in progress. Architects will take bids in one week.

Building (alts.), 635 Market street, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street. Owners, Champion Incandescent Light Co., 235 Market street. General alterations. Plans about completed. Architects will take bids in a few days.

Residences, City Line, between Bala and Overbrook, Pa. Architect, private plans. Owner, John H. McClatchy, Land Title Building, Philadelphia. Stone, brick and stucco, shingle, tile and slate roof. Plans in progress. Too early for details.

Supplies, City of Philadelphia. Owners, City of Philadelphia, Horace V. MacFadyen, Acting Purchasing Agent, 312 City Hall. Filler (dust) and asphalt cement, vitrified red shale, or fire clay brick. Owners taking bids due May 24th at noon in Room 329. Inquire Room 312.

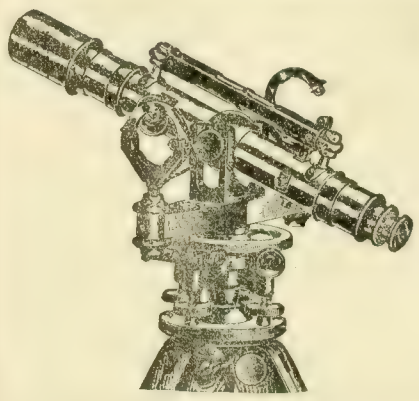
Residences (2), Roosevelt Boulevard and Rising Sun avenue. Architects, Lehigh Eng. & Const. Co., Sixth and Lehigh avenue. Owner, name withheld. Brick and steel, 2 stories, 20x54 feet, slag roof, hardwood floors, pipeless heaters (lighting reserved). Plans completed. Architects are taking sub-bids.

Residence, (6 pairs), Drexel road, South of City Line, Overbrook. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, G. Allen Maher, care of J. A. Barry, Land Title Building. Stone, brick and stucco, 3 stories, 16x48 feet, slate, tin and slag roof, hardwood floors, electric light, tile and marble work, cement work, central heating. Owner is taking sub-bids.

Store and Apartment and (4) Two-Family Houses, Nineteenth and Federal streets. Architect, R. W. Pollock, 1802 Chestnut street. Owners, A. & E. Lawrence, Point Breeze avenue and Wharton street. Brick, 2 stories, size of lot 68x77 feet, slag roof, hot water heat, electric light, cement work, pine and hardwood floors. Owners are taking sub-bids.

Residence (alts.), 5436 Mitchell street, Roxboro, Philadelphia. Architect, private plans. Owner, Charles Trapold, on premises. Carpentry, mill work, plastering, painting, glazing (heating, lighting and plumbing reserved), iron work. Owner taking bids due as soon as possible.

Building (alts. and add.), 1635 Columbia avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Adolph Friedman, care of architect. Carpentry, mill work, plastering, slag roof, cement floors, metal ceilings, tile work. Architect taking bids due as soon as possible.



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Office (add.) and Warehouse, Wissinoming, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, National Ammonia Co. of Pennsylvania, on premises. Brick, cut stone and steel, 1 story, 50x35 feet, and 1 story, 234x48 feet, slag roof, cement and maple floors, metal weather strips, terra cotta, iron work, bond, rolled steel sash, metal lath, tile work (heating, lighting, plumbing reserved). Architect taking bids due May 18th at noon.

Garage, West side of Belfield avenue, above Courtland street. Architect, Amos W. Barnes, 10 South Eighteenth street, Philadelphia. Owner, S. H. Marvel, 1607 Hunting Park avenue. Brick, slow burning, 1 story, 94x180 feet, slag roof, cement floors, roof ventilators, hollow metal skylights (heating, lighting and plumbing reserved). Architect is taking general bids due May 19th.

Apartments, rear of 6301 North Park avenue, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick and cut stone, 3 stories and basement, 40x85 feet, slate and slag roof. Architect taking revised bids due May 19th at noon.

Residence (alts.), 3150 North Broad street, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, J. Bartley Longshore, on premises. Changing into two-family residence, 3 stories, 16x80 feet, brick work, stone work, plastering, slag roof, hardwood, tile and mineral floors, glazing, iron and steel work, hot water heat, plumbing, electric light, plastering. Owner taking bids due May 22nd.

Parsonage and Sunday School, 1538-42 East Montgomery avenue. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, Atonement Lutheran Church, on premises. Brick and steel, 2 stories, 55x57 feet, and 2 stories and mezzanine, 71x49 feet, slag and slate roof, pine, composition and oak floors, electric light, tile and marble work, metal lath, tin covered doors (heating and plumbing separate bids). Architect taking bids due May 22nd.

Office Building (add.), 149 South Twenty-fourth street, Philadelphia, $5,000. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, Annabelle R. Rosse, 5036 Osage avenue, Philadelphia. Brick, 2 stories, 46x15 feet, slag roof, pine floors, electric work. Architect is sub-letting.

Office Building (add.), Twenty-ninth and Gray's Ferry road. Owners, Henry Bower Chemical Mfg. Co., on premises. Brick, cut stone and steel, 2 stories, 37x45 feet, asbestos built-up roof, pine floors, metal lath, bond, iron work. Architects taking bids due May 20th.

Residence (alts.), 435 West Bringhurst street. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations. Architects taking bids due as soon as possible.

Residences (22), East side Hope street, North of Clearfield street, and Northeast Corner Hope and Indiana avenue, $3,000 each. Architect, private plans. Owner, Harold C. Irvin, 721 Walnut street, Philadelphia. Brick, 2 stories, 15x25½ feet, slag roof, oak and yellow pine floors, hot air heat, electric light. Owner will build.

Contracts Nos. 4 and 5, Delaware River Bridge. Architect, private plans. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Construction of first section of Philadelphia anchorage and first section of Camden anchorage. Owners taking bids due May 31st at 2 P. M.

Sewers, Supplies and Bridge, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Frank H. Caven, 416 City Hall. Branch sewer, main sewer, reconstruction of sewer, inlets, manholes, well holes, supurs, etc. Bridge, South Street Bridge over P., B. & W. R. R. Owners taking bids due Room 216, City Hall, June 4th, at noon.

Construction and Improvement of Buildings, Brown's Farms, Torresdale. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Correction, 592 City Hall, Philadelphia. Frame, 1 story, slate, shingle and neponsite paroid ready roof, cement and pine floors, 22x14 feet, 28x14 feet, 17x22 feet, and (2) 26x15 feet. Lowest bidders: Chancellor Day, 3503 Decatur street, Holmesburg, $9,800; George H. Evans, Inc., 109 North Thirteenth street, $11,115. Plumbing, L. J. Somers & Son, 2436 Brown street, $7,249.

Residences (34), Fifty-eighth and Fairhill streets, $181,600. Architect, private plans. Owner, Walter S. Bauer, 5802 North Fifth street, Philadelphia. Brick, 2 stories, 16x37 feet, 16x34 feet and 16x31 feet, 11x11 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (2), West side Fifth street, North of Wyoming avenue, $12,000. Architect, private plans. Owner, Mr. Wetzel, Fifth and Luzerne streets, Philadelphia. Brick, 2 stories, 15x50 feet, slag roof, oak and yellow pine floors, steam heat, electric light, tile work. Owner will build.

Residence and Store (1) and Residences and Garages (7), Magee and Torresdale avenue, Philadelphia, $37,500. Architect, private plans. Owners, Belinsky Brothers & Godet, 2630 South Ninth street, Philadelphia. Brick, 2 stories, 20x47 feet 8 inches, 16x28 feet, 13x10 feet and 15x28 feet, 12x10 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (10) and Stores (2), West side Sixty-eihth street, North of Greenway avenue, Northwest Corner and Southwest Corner Upland street, $51,000. Architect, private plans. Owners, Berman & Guberman, 6036 Market street, Philadelphia. Brick, 2 stories, 19x26 feet 8 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (2) (2-family), West side Fortieth street, North of Baring street, $20,000. Architect, private plans. Owner, Isaac Weinstein, 3202 Columbia avenue, Philadelphia. Brick, 2 stories, 18x24 feet, 15x46 feet and 19x75 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Owner will build.

Residences (5), North side Mentor street, West of Second street, $4,000 each. Architect, private plans. Owner, Frank W. Biddle, 4651 North Fifth street, Philadelphia. Brick, 2 stories, 14x29 feet, 11x11 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence (alts. and add.), 6519 Woodland avenue, $6,500. Architect, private plans. Own-

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er, Sadie Freedman, on premises. Brick, 3 stories, 12x40 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Garage and Show Rooms, 2844-46-48 Frankford avenue, $20,000. Architect, private plans. Owner, H. Liebowitz, 4045 Baltimore avenue, Philadelphia. Brick, 1 and 2 stories, 74x50 feet, 74x59 feet and 99x142 feet, slag roof, cement floors, hot water heat, electric light, plate glass, painting, glazing. Owner will build.

Residences (2), 852-54 Cottman street, Philadelphia, $3,000 each. Architect, private plans. Owner, George Nagel, 856 East Cottman street, Philadelphia. Brick, 2 stories, 14x27 feet, 10½x13 feet 4 inches, slag roof, yellow pine floors, hot air heat, electric light. Owner will build.

Residence, Southwest Corner Twelfth and Champlost avenue, Philadelphia, $4,000. Architect, private plans. Owner, Arthur V. Turner, 1134 Fillmore street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 41 feet 8 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Building (add.), 321 South Thirteenth street, Philadelphia, $3,500. Architect, private plans. Owner, Harry B. Shoemaker, Northwest Corner Thirteenth and Spruce streets. Brick, 3 stories, 13x42 feet, slag roof, oak and yellow pine floors, electric lighting. Owner will build.

Garage, East side Glenlock street, North of Disston street, $3,000. Architect, private plans. Owner, D. J. Potter, 6932 Ditman street, Philadelphia. Brick, 1 story, 72x20 feet, 18x18 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Residence, 1710 Stocker street, Philadelphia, $2,800. Architect, private plans. Owner, Fred S. Park, Seventeenth and Moyamensing avenue, Philadelphia. Brick, 2 stories, 18x24 feet, slag roof, yellow pine floors, hot water heat, electric light. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence and Garage (alts. and add.), 2826-28 West York street, $6,000. Architect, private plans. Owner, Samuel Gross, Twenty-ninth and York streets, Philadelphia. Brick, 2 stories, 20x24 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Charles Schnitzer, 2513 North Thirty-first street.

Residence, Northeast Corner Fourth and Gaskill streets, Philadelphia, $19,500. Architect, private plans. Owner, B. Yamovitz, 517 South Fourth street, Philadelphia. Brick, 2 stories, 20½x54 feet, slag roof, oak and yellow pine floors, vapor heat, electric light, tile work. Contract awarded to Charles Belinsky, 2630 South Ninth street.

Residence, South side Guyers avenue, East of Eighty-sixth street, $2,500. Architect, private plans. Owner, U. Shutsky, 8620 Lyons avenue, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, yellow pine floors. Contract awarded to Isaac L. West, 8220 Buist avenue, Philadelphia.

Residence (alts.), 1612 Locust street, Philadelphia, $4,000. Architect, private plans. Owner, Rose A. Daley, Cynwyd, Pa. General interior alterations. Contract awarded to Price Const. Co., Penn Square Building, Philadelphia.

Warehouse, Northwest Corner Front and Pine streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, I. Revinowitz, care of architect. Brick and steel, 4 stories, 35x90 feet, slag roof, concrete floors, elevators, waterproofing, iron work, fire doors, rolled steel sash, electric lighting. Contract awarded to Pierce Henon Co., JJuniper and Pine streets, Philadelphia.

Manufactory (add.), Bodine, American and George streets. Architect, private plans. Owners, H. Swoboda & Son, Inc., 1027 North Bodine street. Brick and steel, 2 stories, 115x86 feet and 58x76 feet, slag roof, cement, composition and maple floors, iron work, floor hardener, rolled steel sash and skylights, fire doors. Contract awarded to John N. Gill Const. Co., Otis Building.

Stores (3), Apartments (2), 1818 South Fifty-eighth street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Louis Halprin, 806 Commonwealth Building, Philadelphia. Brick, 2 stories, 50x100 feet, electric work, plate glass, painting, plastering, hardwood floors. Contract awarded to De Joseph & Co., 5035 Haverford avenue.

Building No. 102 (alts.), League Island, Philadelphia. Architect, private plans. Owners, United States Government, care of Lieutenant T. B. Colburn, League Island. Repairs and reinforcing extension to bakery at marine barracks, concrete, sheet metal work, structural steel, tin roof. Contract awarded to Lam Building Co., 1001 Wood street.

Store and Apartments (2), 2220-22 West Norris street, $3,600. Architect, private plans. Owner, Harry Feldman, Twentieth and Norris streets. Excavation, lowering floors, carpentry, mill work, cement work, electric work, painting, plumbing, brick repointing, flush bulks, iron and steel work, tile and marble work. Contract awarded to A. S. Shafer, 2122 South Nineteenth street.

Church, Northeast Corner Sixtieth and Master streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Calvin Presbyterian Church, on premises. Stone and steel, 2 stories, 90x100 feet, slate roof, composition, pine and maple floors, electric lighting, plumbing, iron work (heating and ventilating reserved). Contract awarded to F. B. Davis & Son, 240 North Sixteenth street.

Residence (alts.), 1910 Girard avenue, Philadelphia. Architects, Schermerhorn & Phillips, 431 Walnut street, Philadelphia. Owner, Charles J. Miller, Commonwealth Building, Philadelphia. New partitions, slag roof, hard-

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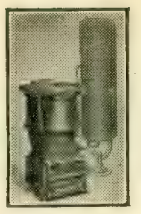
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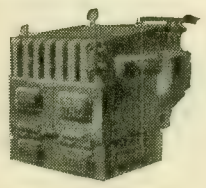
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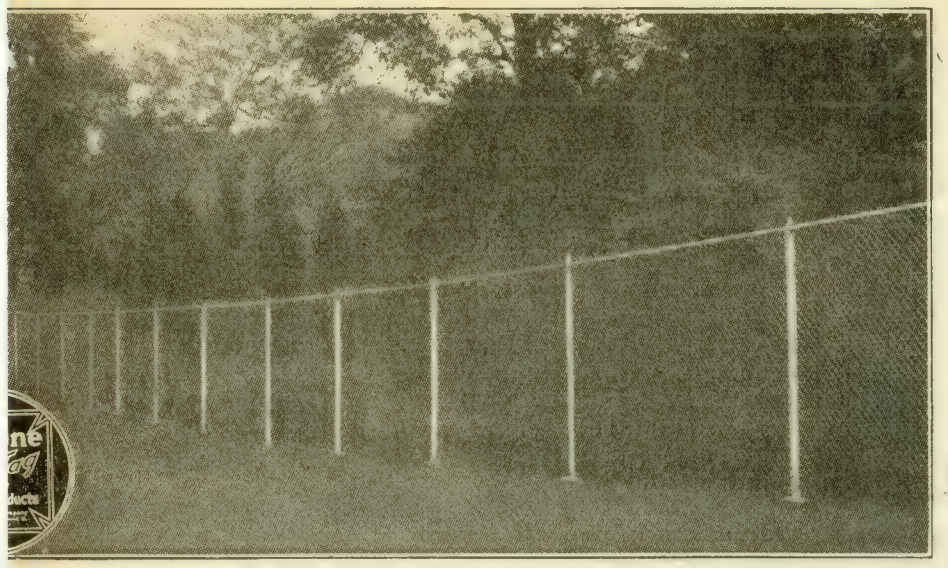
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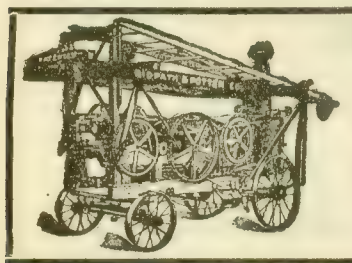
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wood floors, hot water heating, electric light, tile and marble work. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Storeroom and Apartments, Seventh and Catharine streets. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Max Tsaki, on premises. Brick, 3 stories, slag roof, pine and cement floors, electric lighting, metal lath. Contract awarded to Cerasoli & Scurci, 1709 South Eleventh street.

Automobile Storage Building (add.), Southwest Corner Twenty-fourth and South streets, Philadelphia, $22,000. Architect, private plans. Owners, Thornton Fuller Auto Co., Twenty-fourth and South streets, Philadelphia. Brick, 1 story, 96x145 feet, 96x51 feet, slag roof, cement floors, hot water heat, electric light, rolled steel sash. Contract awarded to F. T. Mercer Co., 1916 Brandywine street.

Garage, 4130-38 Ridge avenue, Philadelphia, $15,000. Architect, private plans. Owner, George Seldon, 3221 Cresson street, Philadelphia. Brick, 1 story, 102x98 feet, slag roof, cement floors, hot water heating, electric lighting. Contract awarded to Clayton Lofland, Water and Race streets.

Residence (add.), 1725 Christian street, Philadelphia, $2,100. Architect, private plans. Owner, Charles Hutton, on premises. Brick, 2 stories, 12x16 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to J. F. Trent, 2041 Master street, Philadelphia.

Garage, 1415 North Fifteenth street (rear), $2,000. Architect, private plans. Owner, Dr. Alexander Cornish, on premises. Brick, 1 story, 26x26 feet, slag roof, cement floors, electric light. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Building (alts. and add.), 1037-39 Walnut street, $2,800. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, W. J. O'Brien, 1033 Walnut street, Philadelphia. Brick, 1 story, 15x39 feet, slag roof, mineral floors, hot water heating, electric lighting. Contract awarded to George W. Wagoner, 274 South Twentieth street.

Residence (add.), 1317 Butler street, Philadelphia, $2,000. Architect, private plans. Owner, Miss Lillian O'Neill, on premises. Brick, second and third story add., 16x24 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to W. MacDonald, 1836 Wallace street.

Building (alts.), 2220 South street, Philadelphia, $2,500. Architect, private plans. Owner, Morris Mildran, 2216 South street, Philadelphia. General interior alterations. Contract awarded to Charles Litman & Bro., 2438 South Fourth street.

Garage, East side Sixth street, North of Clearfield street, $2,000. Architect, private plans. Owners, Fairhill Ice & Coal Co., on premises. Brick, 1 story, 20x124 feet 10 inches, slag roof, cement floors. Contract awarded to John Engle, Eighth and Allegheny avenue.

Residence, 151 North Fifty-second street, Philadelphia, $2,000. Architect, private plans. Owner, Mary F. Willets, 122 North Fifty-second street, Philadelphia. General interior alterations. Contract awarded to Charles E. Marker, 21 South Fifty-third street.

Storage Building (add.), Southwest Corner Kensington avenue and Womrath streets, Philadelphia, $14,600. Architect, private plans. Owner, Alvin A. Swenson, on premises. Brick, 1 story, 60x150 feet, slag roof, cement floors, steam heat, electric light, steel work. Contract awarded to Paul Brosz, 2511 West Huntingdon street.

Building (fire repairs), 216-18 South Third street, $11,000. Architect, private plans. Owners, Smulowitz & Son, 1014 Arch street, Philadelphia. Carpentry, mill work, elevator, electric work, steam heating, maple floors, general repairs. Contract awarded to J. F. Trent, 2041 Master street, Philadelphia.

Building (add. and alts.), Northwest Corner 5th and Fairmount ave. $8,000. Owners, Finestone & Miller, 715 N. 5th st., Phila. Brick, 1 story, 16x16 feet, 28½x6 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to William Ariff, 1116 Lincoln Building, Philadelphia.

Garage (add.), West side Fifteenth street, North of Courtland, $8,000. Architect, private plans. Owner, Frederick Wilhelm, 4943 North Broad street, Philadelphia. Brick, 1 story, 20x172 feet 10 inches, slag roof, concrete floors, hot water heat, electric light, steel sash. Contract awarded to Stewart Brothers, 2526 North Orkney street.

Garage, North side Wyoming street, East of B street, $8,000. Architect, private plans. Owner, A. McClay, on premises. Brick, 1 story, 50x100 feet, slag roof, cement floors, hot water heating, electric lighting. Contract awarded to C. W. McClay, 219 East Wyoming avenue, Philadelphia.

Garage, 2435-37 North Second street, Philadelphia, $8,000. Architect, private plans. Owner, Walter Klenk, 2439 North Second street, Philadelphia. Brick, 1 story, 32x109 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to William Brinkworth, 2069 East Dauphin street.

Laundry (add.), Northwest Corner Forty-eighth and Ludlow streets, $5,500. Architect, private plans. Owners, Quaker City Laundry, on premises. Brick, slow burning, 2 stories, 16x32 feet, slag roof, pine and cement floors, excavation, plumbing, new toilet rooms. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Garage, 6209 Race street, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, James Morresy, on premises. Brick, 1 story, 36x19 feet, slag roof, cement floors. Contract awarded to Pierce Henon Co., Juniper and Pine streets, Philadelphia.

Store (alts.), Southwest Corner Eleventh and Market streets, $280,000. Architect, private plans. Owners, N. Snellenburg & Co., on premises. New elevators and escalators and general repairs. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Factory, 1926-28 North Front street, Philadelphia, $8,000. Architect, private plans. Owner, George Rixsin, 1930 North Front street, Philadelphia. Brick, 2 stories, 36x75 feet, slag roof, maple floors, electric lighting. Contract awarded to Harry Kuehnlein, 2046 Trenton avenue, Philadelphia.

Residence, 4925 North Fifth street, Philadelphia, $8,400. Architect, private plans. Owner, Charles R. Nitsch, 6733 Sydenham street, Philadelphia. Brick, 2 stories, 20x61 feet 9 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Con-



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tract awarded to George R. Dewees, 407 Grange avenue.

Shop (add.), Northeast Corner Erdrick and Vankirk streets, $6,800. Architect, private plans. Owners, Richter Machine Co., on premises. Brick, 1 story, 50x100 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to J. D. Fotheringham, 1000 Arrott street.

Garage, 2435-37 North Second street, Philadelphia, $8,000. Architect, William Brinkworth, 426 Walnut street, Philadelphia. Owner, Walter Klenk, 2439 North Second street, Philadelphia. Brick, 1 story, 32x109 feet, slag roof, cement floors, hot water heat, electric light, steel sash. Contract awarded to William E. Stone, 2069 East Dauphin street, Philadelphia.

Building (add.), 5100 North Broad street, Philadelphia, $6,000. Architect, private plans. Owner, C. A. Stout, Broad and Wagner streets, Philadelphia. Brick, 3 stories, 20x26 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Harry Drake, 3189 Frankford avenue.

Engine Room (alts.), East side Braddock street, North of Westmoreland street, $4,500. Architects, Stewart A. Jellett Co., 1200 Locust street, Philadelphia. Owners, Thomas Wolstenholme & Son Co., 3300 Frankford avenue. Concrete work, cement floors. Contract awarded to Carson & Carson, 22South Fifteenth street, Philadelphia.

Warehouse, Southwest Corner Swanson and Kenilworth streets, $5,000. Architect, private plans. Owner, Philip Godley, 101 Walnut street, Philadelphia. Brick, 1 story, 67x67 feet, slag roof, cement floors, steel sash. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Stable, North side School Lane, West of Wissahickon avenue, $6,200. Architect, private plans. Owner, Mr. Jay Turner, care of builder. Brick, 2 stories, 34x29½ feet, slag roof, electric light. Contract awarded to William E. Hale, 1516 Summer street, Philadelphia.

Bungalow, East side Bingham street, North of St. Vincent, $4,300. Architect, private plans. Owner, Roland H. D. Geiger, 3473 Jasper street, Philadelphia. Frame, 1 story, 32x31 feet, shingle roof, oak and yellow pine floors, hot water heating, electric lighting. Contract awarded to Fred Scheibel, 3467 Jasper street, Philadelphia.

Residences (2), 6023-25 J street, Philadelphia, $6,000. Architect, private plans. Owner, Charles H. Sterling, 6027 J street, Philadelphia. Brick, 2 stories, 16 feet 8 inches x 40 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to Samuel Stubbs, 208 East Linwood avenue.

Building (alts.), 255 West Tulpehocken street, $5,000. Architect, private plans. Owners, Heidley & Puff, 900 Oak Lane, Philadelphia. General interior alterations. Contract awarded to Acme Const. Co., 2025 North Sixty-second street.

Garage, 1664 Foulkrod street, Philadelphia, $4,500. Architect, private plans. Owner, D. I. Adams, 1660 Foulkrod street, Philadelphia. Brick, 1 story, 19x112 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Thomas Summerfield, 1615 Howarth street.

Building (add.), 136 Berkley street, Philadelphia, $4,000. Architect, private plans. Owners, Moore Push Pin Co., 136 Berkley street, Philadelphia. Brick, 2 stories, 48x26 feet, slag roof, maple floors, electric light. Contract awarded to John Roman, 414 East Bringhurst street.

Garage, 1507 North Fifteenth street, Philadelphia, $3,600. Architect, private plans. Owner, O. Fuhrman, on premises. Brick, 1

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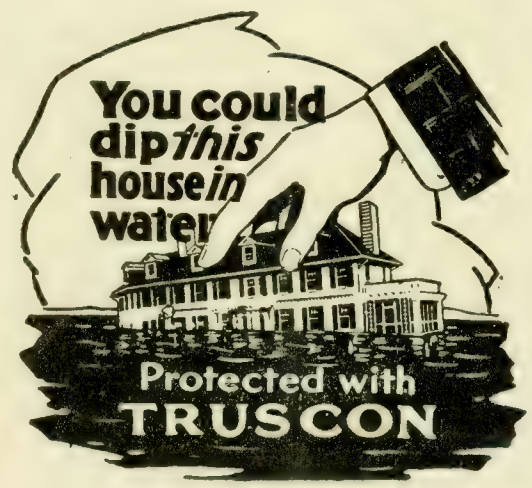
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story, 28x56 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to J. Lindan, 1806 North Seventh street, Philadelphia.

Residences (2), 8108-10 Harley avenue, Philadelphia, $3,500 each. Architect, private plans. Owner, Joseph O. Kinsky, 8114 Harley street, Philadelphia. Brick, 2 stories, 16x47 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to A. Fretick, 2820 Ellsworth street, Philadelphia.

Storage Building (add.), Southeast Corner Orthodox and Melrose streets, Philadelphia, $3,000. Architect, private plans. Owner, John Gabriel, on premises. Brick, 2 stories, 20x27 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to John H. Rackie, 3400 Deveraux street, Philadelphia.

Residence and Store (add.), 924 North Second street, $3,100. Architect, private plans. Owner, M. J. Bornstein, on premises. Brick, 1 story, 5x13 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to W. Weinstein, 359 Daley street, Philadelphia.

Pennsylvania Construction News

Residence, Lansdowne, Pa. Architect, H. M. Pedrick, Darby Post Office Building, Darby, Pa. Owner, George Missner, Lansdowne, Pa. Frame and stucco, 2½ stories, 25x34 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Residence, Highland Park, Pa. Architect, H. M. Pedrick, Darby Post Office Building, Darby, Pa. Owner, George Missner, Lansdowne, Pa. Stone and stucco, 2½ stories, 22x36 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, metal lath. Owner will build.

Bank and Office Building, Berwick, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Berwick National Bank, Berwick, Pa. Brick, steel, terra cotta and cut stone, 2 stories, 50x62 feet, asbestos asphalt roof, cement and linoleum floors, steam heat, electric light, metal lath, marble and terrazzo, hollow metal doors, bond, iron work, waterproofing. Architects taking bids due May 25th.

Supplies, Bellefonte, Pa. Owners, Western Penitentiary, care of John Francis, superintendent of Construction, Bellefonte, Pa. Temporary steel structures, lumber, Portland cement, plumbing and heating supplies, cement testing laboratory equipment and supplies, electric motor and electric blacksmith blowers. Owners taking bids due May 22nd at noon, standard time. Inquire at offices of Board of Inspectors, Western Penitentiary, North Side, Pittsburgh, Pa., or to Superintendent of Construction above mentioned.

Piggery, Green Pond Farms, near Bethlehem, Pa. Architect, C. F. Spangenberg, Bethlehem, Pa. Owners, Green Pond Farms, Verno Melhardo, manager, Route No. 1, Bethlehem, Pa. Concrete, frame, 2 stories, 28x100 feet, slate roof, cement and wood block floors, hot water heat, electric light, steel stalls. Owner ready for general bids.

Store and Residence, Chambersburg, Pa., $20,000. Architect, Horace G. Kilmer, Chambersburg, Pa. Owner, George E. Gilbert, Chambersburg, Pa. Brick, 2 and 3 stories, 26x110 feet, stone and concrete foundations, built-up roof, hardwood floors, hollow tile, steam heat, electric light, tile and marble work, roof ventilators, metal ceilings, fire doors, ornamental iron work. Architect taking bids due June 1st.

Warehouse and Garage, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Hersh Brothers, Allentown, Pa. Brick, steel, concrete, 3 stories, 73x21 feet, built-up roof, concrete and hardwood floors, steam heat, electric light, rolled steel sash, freight elevators. Architect ready for bids.

Residence, Chambersburg, Pa., $7,500. Architect, Horace G. Kilmer, Chambersburg, Pa. Owner, name withheld. Brick, 2 stories, 39x27 feet, slate roof, hardwood floors, hollow tile, hot water heat, electric light. Architect taking bids due June 1st.

Bank, Ephrata, Pa., $100,000. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Ephrata National Bank, Mr. Weidman, president, care of Harry Hibshman, Ephrata, Pa. Stone, 1 story, 53x90 feet, steam heat, electric light, tile work, hollow tile, metal lath, bank fixtures, metal weather strips, ornamental iron work. Architect will take bids this week.

Residence, Girard avenue, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, W. W. Anderson, 646 Lake street, Lancaster, Pa. Brick, 2½ stories, 26½x30 feet, slag roof, hardwood floors, hot air heat, electric light, tile work. Owner and architect ready for bids.

High School, Millersville, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, care of F. F. Brenner, Highville, Lancaster County, Pa. Brick, 2 stories and basement, 80x95 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved). Architect taking bids on excavating. Will take bids on general contract in two weeks.

Administration Building (add.), 31 Penn street, Allentown. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, School Disitrict, City of Allentown, David Jacks, chairman, Allentown, Pa. Brick, fireproof, 3 stories, 52x64 feet, slag roof, hardwood floors, electric light, elevators. Owner ready for bids.

Store and Office, 913 Hamilton street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, L. T. Keiter, Allentown, Pa. Brick, steel, tile, 3 stories, 22x110 feet, built-up roof, yellow pine floors, hollow tile, steam heat, electric light, metal lath, rolled steel sash, tile work, terra cotta. Owner ready for bids.

Apartment, Evergreen street, Harrisburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owner, C. H. Conover, 111 Evergreen street, Harrisburg, Pa. Brick, 3 stories, 30x56 feet, composition roof, hardwood floors, vapor heat, electric light, tile work. Owner is building.

Theatre, Lewistown, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, Mr. D. J. Sheveha, Lewistown, Pa. Brick and steel, 1 story, 60x150 feet, composition roof and floors, hollow tile, metal lath, roof ventilators, steam heat, electric light, tile and marble work, skylights, fire doors. Owner sub-letting.

Residences (2), Parson and Hamilton streets, Easton, Pa., $10,000. Architect, private plans. Owner, Philip Kessler, 507 Parson street, Easton, Pa. Brick, 2½ stories, 44x32 feet, slate roof, pine floors, steam heat, electric light, tile work. Owner will build.

Additional Unit, Marcus Hook, Pa. Architects, Ballinger Co., Twelfth and Chestnut streets. Owners, Viscose Co., Marcus Hook, Pa. Brick, concrete and steel. Owners are building.

Chapter House, South Bethlehem, Pa. Architects, Clark & Howe, Providence, R. I. Owners, Briarfield Association, South Bethlehem, Pa. Brick and stucco, 2½ stories, 97x22 feet, slate roof, cement, oak and pine floors, waterproofing, bond, copper skylights, tile and terrazzo, metal lath. Bids due May 25th.

Grade School, St. Cloud and Walnut streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Allentown School Board, Allentown, Pa. Architects selected. Plans in progress.

Club (alts.), Bangor, Pa. Architect, C. S. Spangenberg, 504 Broadway, South Bethlehem, Pa. Owners, Jacksonian Democratic Club, care of architect. General interior alterations, hardwood floors, electric light, two new fire towers. Plans in progress.

School, North White Hall Township, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, North White Hall Township School Board, Mr. Diesendeifer, secretary, care of architect. Brick, 2 stories, 8 rooms, slag roof, hot water heat, electric light, tile work. Plans in progress.

Masonic Temple, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Masonic Temple, care of D. E. Brindle, Carlisle, Pa. Brick, stone, 2 stories, 58x108 feet, slag roof, tile floors, steam heat, electric light, tile and marble work, roof ventilators, skylights, ornamental iron work. Plans in progress.

Church (alts.), Milton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Milton Methodist Church, Milton, Pa. General alterations. Plans in progress.

Residence, Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, W. A. Gould, Philipsburg, Pa. Brick, 2½ stories, 34x40 feet, asbestos shingle roof, hardwood floors, vapor heating, electric lighting. Plans in progress.

Residence, Aldan, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street. Owner, H. M. Collins, Aldan, Pa. Plans in progress. Too early for details.

Residence, Store and Apartment (add.), Bethlehem, Pa. Architect, C. F. Spangenberg, Bethlehem, Pa. Owner, Robert E. Laramy, 207 Burke street, Easton, Pa. Brick, 2 stories, 20x90 feet, tin and slate roof, hardwood floors, hot water heat, electric light, tile work, metal ceilings. Plans in progress.

Factory, Bethlehem, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem,

Pa. Owner, Solomon Goodman, Bethlehem, Pa. Brick, mill construction, 3 stories, 75x80 feet, slag roof, pine floors, steam heat, electric light, freight elevators, roof ventilators, rolled steel sash and skylights, fire doors. Plans in progress.

Store (alts.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, W. A. Heinitsh, 27 South Queen street, Lancaster, Pa. Plate glass, copper work, general interior alterations. Plans in progress.

Residence, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, A. K. Mann, North Prince street, Lancaster, Pa. Brick, 2½ stories, 28x33 feet, 14x18 feet, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residences (2), Highland avenue, Lansdowne, Pa., $6,000 each. Architect, private plans. Owner, William H. Hubbard, Widener Building, Philadelphia. Frame, 2½ stories, 23x35 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner is taking sub-bids.

Residence, Ardmore, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, I. L. Gifford, care of architect. Stone and stucco, 2½ stories, 25x39 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath, tile work, bond. Architect taking bids due May 24th.

Residences (5), Ruby street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, C. Haller, South Queen street, Lancaster, Pa. Brick, 2½ stories, 18x40 feet, slag roof, pine floors, hot air heat, electric light. Owner taking bids due as soon as possible.

Court House (alts.), Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Lancaster County, care of County Commissioners, Lancaster. Tile floors, hollow tile, safety treads, metal lath, ornamental iron work. Owners taking bids due May 30th.

Residence, Fort Washington, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Mrs. and Mr. J. H. Little, Fort Washington, Pa. Hollow tile and stucco, 2½ stories, 35x29 feet, slate roof, oak and pine floors, electric light, metal lath, tile work, iron work (heating and plumbing reserved). Owners taking bids due May 18th.

Residence, Penfield, Pa. Architect, J. Miller Blew, 5828 Carpenter street, Philadelphia. Owner, Mrs. David Glubey, care of Architect Frame and stucco, 1½ stories, 26x42 feet, shingle roof, oak and pine floors, hot water heat, electric light. Bids due as soon as possible.

Residences (2), Norman Park, Narberth, Pa. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, C. H. Woolmington and C. S. Keebler, care of architects. Hollow tile, stucco and frame, 2½ stories, 24x36 feet, slate roof, hardwood floors, hot water heat, electric light. Architect taking bids due May 18th.

Cottages (2), Shermanstown, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Methodist Home for Children, care of Dr. E. R. Heckman, 2116 North Third street, Harrisburg, Pa. Stone, fireproof, 3 stories, 42x60 feet each, slate roof, hardwood floors, vapor heat, electric light, tile and marble work, hollow tile, metal lath, iron stairs. Architect ready for bids.

High School, Unit C, Nos. 1, 2, 3, Third and Harris streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, D. B. Hammelbaugh, 121 Chestnut street, Harrisburg, Pa. Brick, reinforced concrete, steel, 2 stories and basement, 420x440 feet, composition roof, cement and wood floors (heating, plumbing and electric work reserved), tile, marble and terrazzo work, skylights, roof ventilators, metal window guards, waterproofing. Owners ready for bids.

Pennsylvania Contracts Awarded

Apartment (alts. and add.), Lancaster, Pa. Architect, F. J. Everts, 122 East King street, Lancaster, Pa. Owner, Miss Elizabeth Davis, Lancaster, Pa. Brick, third story add., 113x20 feet, Barrett roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to B. Frank Bachman, Woolworth Building, Lancaster, Pa.

Store and Apartment (add. and alts.), Seventeenth and Union streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, J. M. Bachman, on premises. Brick, 3 stories, 20x70 feet, slag roof, hardwood floors, steam heat, electric light, plate glass, copper work. Contract awarded to Shaffer & Laudenslager, Allentown, Pa.

Twin Residences, Mt. Carmel, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Thomas Owens and William Bianchini, Mt. Carmel, Pa. Hollow tile and brick, 2 stories, 20x73 feet, electric lighting, tile work, hardwood floors. Contract awarded to A. J. Barstow, Mt. Carmel, Pa.

Bridges (2), Nos. 145 and 155, Columbia County, near Bloomsburg, Pa. Engineer, James D. Long, Norristown, Pa. Owners, State of Pennsylvania, Harrisburg, Pa. Concrete and steel. Contract awarded to O'Dell Brothers, Hughesville, Pa.

Bank, Enola, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Enola State Bank, care of Dr. Holmes, Enola, Pa. Brick, 2 stories, 35x70 feet, slag roof, tile floors, vapor heat, electric light, hollow tile, metal lath, roof ventilators, metal window guards, bank fixtures, ornamental iron work. Contract awarded to J. C. Strickner & Son, Enola, Pa.

Church, Pembrook, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owners, United Brethren Church, Rev. Schoeffer, Pembrook, Pa. Stone, 1 story and basement, 60x90 feet, slate roof, pine floors, steam heat, electric light, tile work, metal lath. Contract awarded to Delson & Stephenson, Fulton street, Harrisburg, Pa.

Bank, Boiling Springs, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Boiling Springs State Bank, care of architects. Limestone, 2 stories, 30x40 feet, composition roof and floors, steam heat, electric light, tile and marble work, metal lath, metal window guards, bank fixtures. Contract awarded to Hemminger Brothers, Carlisle, Pa.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Dr. Charles Rebuch, 412 North Third street, Harrisburg. Brick, 2½ stories, 35x60 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Contract awarded to A. H. Fraim, Lemoyne, Pa.

Fire House (add.), Steelton, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owners, Borough of Steelton, care of architect. Brick and steel, 1 story, 56x30 feet, slag roof, hardwood floors, electric lighting. Contract awarded to J. Crowl, Steelton, Pa.

Dairy, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, C. A. Ruth, Bethlehem, Pa. Brick, 2 stories, 25x40 feet, slate roof, concrete floors, hot water heat, electric light, refrigerators. Contract awarded to F. B. Glassmire, Bethlehem Trust Building, Bethlehem, Pa.

Residence, 307 Parson street, Easton, Pa., $9,200. Architect, private plans. Owner, N. Larson, 501 Reider street, Easton, Pa. Brick, 2 stories, 26x42 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, terra cotta. Contract awarded to A. P. Smith Co., 1225 Ferry street, Easton, Pa.

Storage Building, Canal and St. John streets, Easton, Pa. Architect, A. C. Bump, Boston, Mass. Owners, Swift & Co., Easton, Pa. Brick and concrete, 2 stories, 54x94 feet, slag roof, concrete floors, hollow tile, electric light. Contract awarded to A. S. & C. D. Stewart Const. Co., Easton, Pa.

Residences (10), Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster. Owner, Bowman Kendig, North Queen street, Lancaster, Pa. Brick and stucco, 2½ stories, 24x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Ray Clark, 248 South Ann street, Lancaster.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Capitol Building, Harrisburg, Pa.

Indiana County, Route 68, Center, Blacklick and Burrell Townships, $177,047.50. Contract awarded to W. C. Guncheon & Co., Smethport, Pa.

Allegheny County, Route 70, Springdale and East Deer Township, $129,825.20. Contract awarded to Donald McNeil Co., Pittsburgh, Pa.

Armstrong County, Route 251, East Franklin Township, $140,086. Assigned to F. S. Wilson, Kittanning, Pa.

Blair County, Route 55, Logan and Antis Townships, $254,273.22. Contract awarded to Pottsville Const. Co., Pottsville, Pa.

Clearfield County, Route 59, Curwensville and Grampian Boroughs, Pike, Penn and Bloom Townships, $534,206.90. Contract awarded to Pottsville Const. Co., Pottsville, Pa.

Crawford County, Route 207, West Mead Township. Assigned to J. C. Devine Company, Alliance, Ohio.

Snyder-JJuniata Counties, Route 194, Penn, Union, Chapman and Susquehanna Townships, $555,885.57. Contract awarded to Piel Const. Co., Baltimore, Md.

Cambria County, Route 62, West Carroll, East Carroll and Susquehanna Townships, $250,802.65. Contract awarded to Polo C. Azzara Const. Co., Cresson, Pa.

Mercer County, R-82, Sugar Grove Township, $101,891.18. Contract awarded to Smith Const. Co., Youngstown, Ohio.

Perry County, Route 195, Buffalo Township and Liverpool Borough, $313,403.35. Contract awarded to Ambler-Davis Co., Harrison Building, Philadelphia.

Blair County, R-57, Snyder ownship, $132,787.50. Contract awarded to John Herrmann, Latrobe, Pa.

Chester County, R147, West Vincent, East Nantmeal and South Coventry Townships, $207,775.10. Contract awarded to Mallery & Fitzpatrick, Long Island City, N. Y.

Crawford County, R-84, Hayfield, Venango and Woodcock Townships and Venango and Saegertown Boroughs, $229,298.05. Contract awarded to H. E. Bunce, Olean, N. Y.

Mercer County, R-208, Sandy Lake Township and Borough, $174,751.30. Assigned to Avery & Bailey, Philipsburg, Pa.

Venango-Mercer Counties, R-207, French Creek and Canal Townships, $203,136.65. Contract awarded to Smethport Const. Co., Union City, Pa.

New Jersey Construction News

Garage, Haddonfield, N. J. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, George S. Robbins, Haddonfield, N. J. Brick, 1½ stories, 18x34 feet, slate roof, cement and pine floors, hot water heat, electric light, metal lath. Architect taking bids due as soon as possible.

Store and Apartments (6), Haddon Heights, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, S. Cannon Childs, care of Upsilton & Westcott, 825 Broadway, Camden, N. J. Brick and cinder block, 165x75 feet, slag roof, pine floors, hot air heat, electric light, skylights. Owners ready for sub-bids.

Hotel, Southeast Corner Commerce and Pearl streets, Bridgeton, N. J. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owners, Bridgeton Hotel Co., Bridgeton, N. J. Brick, granite, cut stone and steel, 5 stories, 117x44 feet, wing 46x73 feet, asbestos asphalt roof, cement and maple floors, hollow tile, roof ventilators, waterproofing, terra cotta, iron work and stairs, tile, marble and terrazzo, metal lath (elevators reserved), (plumbing, heating, lighting and ventilating separate bids). Architects taking bids due May 20th.

Store and Apartment, Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Senator J. F. Wallworth, Tanner street, Haddonfield, N. J. Brick and cinder block, 2 stories, 40x56 feet, slag roof, pine floors, steam heat, electric light. Architects taking bids due May 20th.

Residence, Haddon Heights, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, F. Stanley Bleakly, care of architect. Cement block, stucco, 2½ stories, 26x40 feet, asbestos shingle roof, pine floors, vapor heat, electric light. Architect taking bids due May 22nd.

Residence, Morrisville, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Edward Conly, Stacy Trent Hotel, Trenton, N. J. Brick, 2½ stories, 33x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner is building.

Bank Building (alts. and add.), Third and Market streets, Camden, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, West Jersey Title & Trust Co., Camden, N. J. Brick and steel, 2 stories, 53x30 feet, slag roof, cement and pine floors, roof ventilators, metal window guards, metal ceilings, waterproofing, iron work and stairs, bond, hollow metal doors and sash, tile, marble and terrazzo, electric lighting, metal lath. Architect taking bids due May 19th.

Store and Apartment, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, name withheld. Brick and cinder block, 3 stories and basement, 38½x100 feet, slag roof, pine floors, vapor heat, electric light, tile work, skylights. Plans in progress.

Residence, 2906 Mickel street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Arthur Genther, 2204 Federal street, Camden, N. J. Brick, 1½ stories, 20x35 feet, slate roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Comfort Station, Fair Grounds, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Interstate Fair Association, care of Fred Margerum, Trenton. Stucco, hollow tile, 1 story, 30x30 feet, asbestos shingle roof, concrete floors, slate partitions, plumbing, electric light, terra cotta. Plans in progress.

Double House, Twenty-seventh and Stevens streets, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Mr. Ross, care of architect. Hollow tile, stucco, 2½ stories, 32x43 feet, slag roof, hardwood floors, hot water heat, electric light. Plans in progress.

Bungalow, Woodbury, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, George Marion, care of architect. Frame, 1 story, 26x42 feet, asbestos shingle roof, pine floors, hot air heating, electric lighting. Plans in progress.

Service Station, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, name withheld. Brick, 2 stories, 61x147 feet, slag roof, concrete floors, steam heat, electric light, roof ventilators, rolled steel sash. Plans in progress.

Bungalow, Clarksboro, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Mrs. H. E. Currider, on premises. Frame, 1½ stories, 24x50 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath. Plans in progress.

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Elmer Todd, care of architects. Sketches in progress.

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, H. W. Statts, care of architect. Cinder block, slate roof. Sketches in progress.

High School, Roebling, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Roebling School Board, care of architects. Brick, fireproof, 2½ stories, 160x160 feet. Too early for details.

Residence, Pennington, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mrs. E. Store, Trenton, N. J. Frame, 2½ stories, 24x36 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Boiler House, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Trent Tile Co., Inc., Klagg avenue, Trenton, N. J. Brick, 1 story, 30x50 feet, slag roof, concrete floors, electric lighting. Plans in progress.

Residence, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Dr. Dievers, on premises. Frame, 2½ stories, 32x46 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath. Plans in progress.

High School, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, care of architects. Brick, 2½ stories, 125x98 feet, slag roof, hardwood floors, unit system heating, electric lighting, metal lath, tile and marble work (heating, plumbing and electric work reserved), roof ventilators, skylights, waterproofing and dampproofing, terra cotta, steel stairs. Plans in progress.

Market, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton. Owner, C. O. Hildinger, Trenton, N. J. Brick, 1 story, 70x100 feet, slag roof, concrete floors, electric lighting. Plans in progress.

Church, East Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Westminster Presbyterian Church, care of D. C. Frazer Hadley, Camden, N. J. Cinder block, 1 story and basement, 34x58 feet, slate roof, hardwood floors, vapor heat, electric light, steel girders. Architects will be ready for bids in a week.

Residence, Morris Heights, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Robert G. Leavitt, care of architects. Brick, 32x27 feet, shingle roof, pine and hardwood floors, hot water heat, electric light, tile work. Architect ready for bids due as soon as possible.

New Jersey Contracts Awarded

Bell Telephone Exchange, Pacific avenue, Atlantic City, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Delaware & Atlantic Telephone Co., premises. Brick, steel and cut stone, 3 stories, 80x150 feet, slag roof, concrete floors, waterproofing, iron work, metal lath, rolled steel sash, tile and marble work. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia, Pa.

Garage, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, William Weinmann, West Hanover and Barnes streets, Trenton, N. J. Brick and steel, fireproof, 2 stories, 66x120 feet, slag roof, concrete floors, steam heat, electric light, metal lath, freight elevators, rolled steel sash and skylights, roof ventilators, fire doors, floor hardener, concrete stairs. Contract awarded to J. H. Morris & Co., Inc., Broad and Hudson streets, Trenton, N. J.

Store (add.), 161 South Broad street, Trenton, N. J. Architects, Klemann & Kaplan, First National Bank Building, Trenton, N. J. Owner, B. Lobish, 161 South Broad street, Trenton, N. J. Brick, 1 story, 20x60 feet, slag roof, hardwood floors, steam heat, electric light, hollow tile, tile work, roof ventilators, hollow metal skylights. Contract awarded to Nathan Milgaten, 550 South Warren street, Trenton, N. J.

Residence, Morrisville, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, R. Margerum, care of architect. Brick, 2½ stories, 28x40 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to S. W. Mather & Sons, Greenwood and Canal streets, Trenton, N. J.

Auto Show Room, 1388-90 Haddon avenue, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, William C. Davis, Camden, N. J. Brick and cinder block, 1 story, 45x100 feet, slag roof, reinforced concrete floors, steam heat, electric light, rolled steel sash, roof ventilators, skylights, floor hardener. Contract awarded to Albert H. Moorshead, 67 Laurel street, Philadelphia.

Garage, Merchantville, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owner, G. E. Bottomley, care of architect. Hollow tile and stucco, 1story, 20x24 feet, tile roof, concrete floors, hot water heat, electric light. Contract awarded to Howard Fearn, 4402 Westfield avenue, Camden, N. J.

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Nelson C. Denney, care of architects. Cinder block, 2½ stories, 37x29 feet, shingle roof, pine floors, hot water heating, electric lighting. Contract awarded to A. J. Voegtlin, Forty-first and Westfield avenue, Camden, N. J.

Warehouse, Second and Pine streets, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, name withheld. Brick, 1 story, 40x180 feet, slag roof, cement floors, electric lighting. Contract awarded to Emil Schulke, 1183 Jackson street, Camden, N. J.

Miscellaneous Construction News

Church, Canton, Ohio. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Lowell Reformed Church,

care of Rev. O. P. Faust, 127 Arlington avenue, Canton, Ohio. Brick and stone. Plans in progress. Too early for details.

Motor Truck Plant, Fort Wayne, Ind. Engineers, Day & Zimmerman, 611 Chestnut street, Philaelphia. Owners, International Harvester Co. of America, Fort Wayne, Ind. Concrete and steel, plaster and tile, sawtooth building, 1 story, power plant, offices, etc., concrete floors, waterproofing and dampproofing, floor hardener, iron stairs, iron work. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, who want sub-bids on all lines.

(Continued from page 312)

Hoover's department is making a national study of building codes, and when its work is completed there must be a nation-wide activity to carry the recommendations into effect—a type of activity which the new organization is designed to promote.

In addition the program of immediate work embraces transportation, encouragement of local building shows, publicity directed at giving the public an adequate conception of the magnitude and work of the construction industry and studies of seasonal employment, with the initiation of efforts to level out the seasonal swings.

In its organization the cardinal feature of the Council lies in giving each group equal voting power. The ten groups agreed upon are: Architects, engineers, construction labor, general contractors, sub-contractors, materials and equipment manufacturers, material and equipment dealers; bond, insurance and real estate interests; construction departments of public utilities, and the construction departments of federal, state and municipal governments. Some of the associations engaged in the organization work have been the American Institute of Architects, the Federated American Engineering Societies, the Buiding Trades Department of the American Federation of Labor, the Associated General Contractors, the National Federation of Construction Industries, the National Building Congress, the National Association of Building Exchanges, the Building Trades Employers' Association, the National Real Estate Board (not sure of name), besides a large number of associations of manufacturers.

With this strong backing the organizers feel confident that the American Construction Council wlll quickly be able to play an important part in the industrial life of the nation. Work of great magnitude lies right at hand, crying for attention. The public demands that the industry square itself with the public interest by eliminating the minority that have brought it into ill-repute. The individual elements of the industry are aroused to the responsibility which it owes the public and to the opportunities for elimination both of duplicate association efforts and of waste in construction operations.

The time is most propitious for action.

A PLEA FOR ZONING

The diversified architecture which is now characteristic of our Nation, and the extremes to which exigencies, due to unrestraint, have prompted the profession to go, have had an influence in bringing about the determination of nearly all of our great American cities to adopt Zoning plans.

While the primary object of zoning is to control the purpose, manner and method of using property, it will be recognized that under such control, harmonious and symmetrical development, in a considerable degree at least, must result.

We will concede, I believe, that the city that develops along the most symmetrical and conforming lines is the most beautiful, and when, along with such development, proper regard is exercised to protect health and public welfare, it may be safely said that that community architecturally has attained a condition approximating the ideal.

That the architecture of a city has a distinct influence upon the public mind of that community cannot be denied. It creates harmony or discord in proportion to the approximation of or departure from architectural perfection. It is like the blending of colors in art, or the mathematical and proportional arrangement of sound in music, and even though not skilled in these arts, one may quite readily recognize their imperfections. So it follows then that the architectural development of a community has much to do with the contentment, delight and satisfaction of its people.—*E. S. Goodwin in the Architect and Engineer.*

REINFORCCED CONCRETE SKY-SCRAPERS

Tall buildings are numerous in our large cities. Often the only comment that they attract is one of protest against the obstructions encumbering sidewalks during their construction. After a building has been completed few persons not conversant with types of construction will see anything to distinguish it from another similar building. The fact that it may be an entirely different type of construction, introducing perhaps new things of great importance economically, seldom becomes common knowledge. Also seldom does it happen that the average citizen recognizes in a new type of skyscraper an established, accepted type of construction having advantages peculiar to that type alone.

It really required world war conditions to give the necessary impetus resulting in larger, more extensive adaptation of reinforced concrete for skeletons of tall structures. Designers thus forced through inability to obtain materials for the commoner types of construction, turned to concrete and at the same time found to their surprise that the cost of such structures was lower than they had previously believed. They learned that an actual saving resulted by comparison with usual types of so-called thoroughly fireproof construction, worthy of comparison with reinforced concete.

They have found also that the time required to complete concrete buildings is somewhat less because the time element is considerably under control of the builder, since there is no necessity of waiting for the fabrication and shipment of structural shapes from distant shops. Materials for the most part can be obtained locally. This was of paramount importance during the war when economies in the use of transportation were imperative, and it still constitutes an important advantage of concrete construction. As a result hundreds of tall reinforced concrete buildings have sprung up during the last few years. In fact in many localities the majority of structures, ordinarily classed as high buildings, and which has been in progress or were completed during the past season, are of reinforced concrete. In Minneapolis and St. Paul alone there are twenty-six buildings from ten to fourteen stories high with reinforced concrete structural frames. A hasty survey covering the entire country discloses that the number of reinforced concrete buildings over ten stories high, completed or under way, total around 300.

Architectural and engineering firms that have thoroughly enlisted the economies and advantages of the high reinforced concrete building have become specialized in this type of construction because of the possibilities thereby offered for professional advancement.

The question naturally arises as to why high concrete buildings required the impetus of war to force their advantages to the attention of architects and engineers. In addition to the mistaken idea that they were high in first cost, the impression prevailed that the lower story columns of high reinforced concrete structural frame buildings would have to be excessively large. Reduction of rentable floor area was added to the assumed higher cost of the buildings with natural acceptance of the resulting error that the entire building would be uneconomical. This impression, like others of its kind, became fixed through tacit acceptance without investigation, largely because of its frequent repetition. It is gratifying to know that the question is no longer viewed in this light—that knowledge of facts prevails and that unsupported statements cannot pass without challenge.—*Building Management.*

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Warren-Knight Co. .....136 N. 12th St., Phila.
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Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
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Blue Print Shop.....1520 Sansom St., Phila.
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Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

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Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

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Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
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Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co..... ...1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
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Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co. 829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
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Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

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Stewart A. Jellett Co.....1200 Locust St., Phila.

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Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
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Croyle, Guy .....Merion Station, Pa.
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Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

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Berko Bros. .....Randolph and Wood Sts., Phila.
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Pettit, Frank, Ornamental Iron Works,
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Wayne Iron Works..Commercial Trust Bldg., Phila.

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Donnelly & Co. .....319 Vine St., Phila.
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Geiger, A. F..S. E. Cor. Felton and Media Sts., Phila.

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Clausen, Wm. H. .....27th and Diamond St., Phila.
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McFarland-Meade Co., 70th and Kingsessing Ave.

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STUCCO.
Daniel C. Sinclair.....East Lansdowne, Pa

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Conkling-Armstrong Terra Cotta Co.,
Denckla Bldg., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

TERRA COTTA SEWER PIPE.
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Warren-Knight Co.....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

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Richardson & Boynton Co.....1332 Arch St., Phila.

WATER PAINT.
Southern, Wm. B., N. W. Cor. 12th and Spruce, Phila.

WATERPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

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Cyclone Fence Co. .....18 S. 7th St., Phila.

WIRE PARTITIONS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

WIRE WORK.
Berko Bros. .....Randolph and Wood Sts., Phila.
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May 24, 1922

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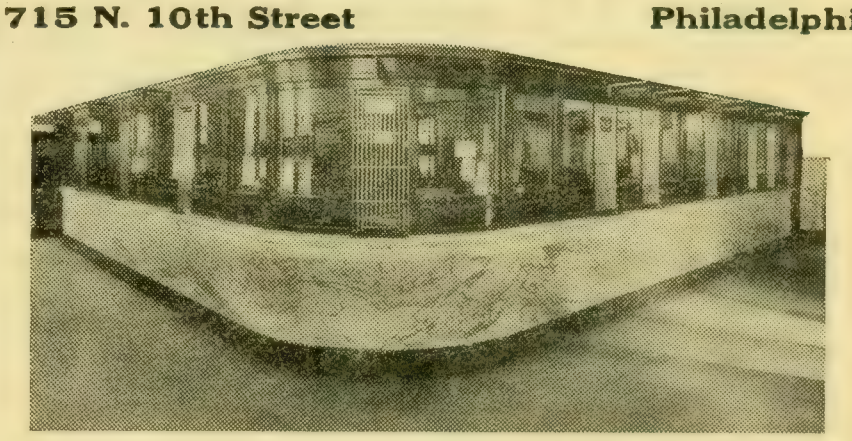
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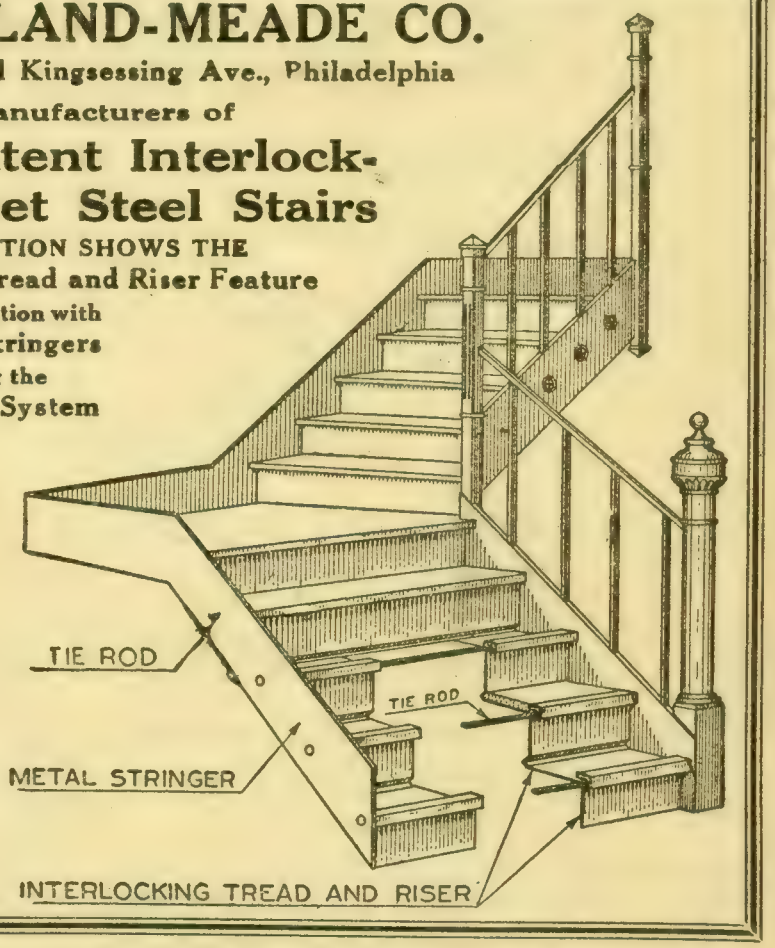
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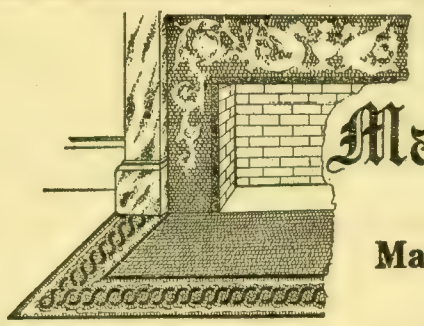
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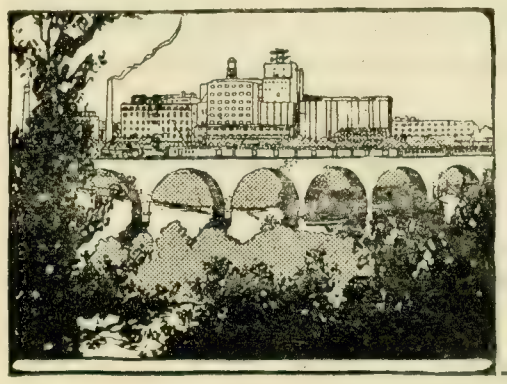
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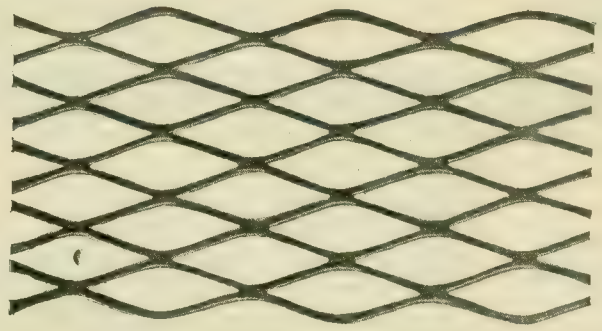
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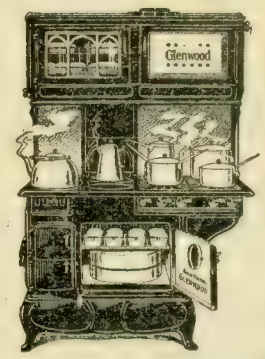
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 21

PHILADELPHIA
May 24, 1922

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As The Editor Sees It

COMMENTING ON THE AMERICAN PLAN IN INDUSTRIAL RELATIONS

H. B. ALLEN

Vice President, San Francisco Real Estate Board and Secretary, Industrial Association of San Francisco

THE general public may be interested in learning that the American Plan as established and enforced in San Francisco by the Industrial Association is something distinct and different from the old time so called open shop. Whereas the open shop wherever enforced usually has meant the entire absence of all restriction or restraint upon employers with respect to wages paid, hours of work and other conditions of employment—thereby giving opportunity for unscrupulous employers to deal unfairly, the American Plan in San Francisco has set up machinery for reasonable control of these matters in the interest of the public.

In other words, it really has been a PLAN, definitely conceived and definitely carried out, in the interest not of any special group or faction, but in the interest of the three parties to industrial relations: the public, labor and the employers.

The American Plan is predicated upon the proposition that the public interest is paramount to that of any other community element, and that neither labor nor capital, nor any other faction or class, should be allowed to take action that will jeopardize that interest. And, as the public interest actually would be jeopardized as much by unfairness of any kind visited by the employers upon labor or consumers, as by autocratic labor union control of industry, the American Plan prevents either of these things taking place.

The American Plan says to labor: "You cannot be allowed to secure an autocratic, selfish and restrictive control over industry, for the result is that not only the industry itself but the whole public in seriously injured thereby." It says to the employer: "You cannot be permitted to beat down labor, for when labor receives less than that to which it is justly entitled, not only labor but the whole public suffers seriously and is permanently injured—and we will not give you such unlimited backing that you can enter into combinations with your competitors and get a monopolistic control in your industry under cover of a community-wide organization."

Then, turning again to labor, it says: "You are entitled to an equitable wage, to reasonable hours and to decent working conditions, but in turn you must be willing to give to your employers, honest, loyal and efficient service." And turning once more to the employer, it says: "You have the right to demand honest, loyal and efficient service from ALL your employees. You are entitled to the right of hiring and discharging employees individually on merit, without outside interference, so long as on all occasions that right is exercised only upon broad principles of justice; and to the right of rewarding individual merit in employees, but in turn you must recognize the obligation of the management to the employees generally, and particularly to co-operate in providing, so far as possible, continuous employment."

Roughly, and in brief, that IS the American Plan as established and enforced in the building industry of San Francisco by the Industrial Association. Theoretically fair, it stands proven as practically fair as well. It has freed labor from the self-imposed but misconceived restraint of selfish leadership, has emancipated employers from the throttling control of labor unions, and has guaranteed to the public, to labor and to the employer that all their legitimate rights will be protected at all times.

"Never have conditions in the building industry of San Francisco been as healthy as since the introduction of the American Plan," says Warren H. McBryde, President, Industrial Association of San Francisco.

Real estate transactions, which invariably reflect building operations, during the month of March totalled more than fourteen million dollars, indicating the greatest volume of business for any like

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period since March, 1906—when the building boom preceding the great fire was at the very peak.

The first quarter of 1922 recorded the issuance of building permits amounting to more than eleven million dollars, which is a 70% increase over the first quarter of 1921. The permits for April show an increase of 20% over March, and of 108% over April of last year.

Based on these figures, building operations in San Francisco for the year 1922 will reach approximately sixty million dollars, an increase of more than 100% over the year 1921. And with the wage scale now prevailing under the American Plan and guaranteed by the Industrial Association of San Francisco to continue throughout the year, labor will receive virtually fifty per cent. of this sixty million dollars.

In the face of these figures, which are all very conservative, every impartial person will agree that the American Plan in San Francisco not only has been absolutely fair to the public, to labor and to capital, but also has been of the greatest stimulus and aid to the entire building industry of the city.

"Make the world a safer place to live in" is the rallying cry of safety engineers who are attending the sessions of the Convention of Governmental Labor Officials of the United States and Canada in Harrisburg this week.

A number of important problems confronting safety and welfare workers in the industries have been scheduled for discussion at the convention, Pennsylvania Commissioner of Labor and Industry C. B. Connelley announced in making public plans for a "Safety Rally" as part of the convention program.

The part that Pennsylvania has played in safety matters will be set forth and an organization of the safety interests of the State will be suggested to carry on the work of the Department of Labor and Industry in the field. Commissioner Connelley explained that "such an organization, comprising the safety people of the State, will be a real forward movement in keeping Pennsylvania in the lead on safety."

As part of the program of the Association of the Governmental Labor Officials safety occupied the attention of the delegates at a meeting on May 23rd. A round table discussion on safety, inspection, and sanitation was held with nationally known experts along this line scheduled to present short talks on the progress that has been made in the "Safety First" movement throughout the country.

It is quite likely the proposal of Commissioner Connelley to establish at the 1926 world's fair in Philadelphia a suitable exhibit of safety devices from all parts of the world will be endorsed with assurance from every state labor official present that it will be a success.

Emphatic encouragement of the project of an international safety exhibit at the Philadelphia Exposition has been given Commissioner Connelley by those active in the arrangements for the fair, and all that is needed is the whole-hearted support of officials who will co-operate in providing a suitable exhibit. The Labor Officials Convention in Harrisburg is the place this support can be obtained, and the safety rally is the occasion.

TIMBER PRESERVATION GROWS IN IMPORTANCE

The increased demand for permanent timber structures is shown in a recent report of the Service Bureau of the American Wood-Preservers' Association.

Over 2,400,000,000 board feet of timber for various purposes were pressure treated in 1921 by the 122 wood preserving plants in operation throughout the United States, thereby surpassing the 1920 record by nearly 17 per cent. Approximately equal amounts were treated with coal-tar creosote and with zinc chloride, the standard wood preservatives.

To treat this wood 51,375,360 pounds of zinc chloride, with an absorption of one-half pound per cubic foot, and 79,384,326 gallons of creosote, with an absorption of 5 to over 20 pounds per cubic foot, were required.

Ease of handling and the permanence of well-treated wood at low cost are given as the reason for the increased demand. The proper use of a wood preservative adds a new quality to timber which enhances its value as a construction material.

The material treated consisted mainly of construction timbers for wharf, bridge, highway, mining and building purposes, piling, telephone and power poles, ties, fence posts, wood blocks for street paving and for fctory floors, and timber for miscellaneous uses.

AMERICA'S SECOND INDUSTRY

Magnitude of Construction

BY LEONARD C. WASON

President, Aberthaw Construction Co., Boston

I think few are aware of the magnitude of the construction industry. An investigator for the Associated General Contractors of America traveled throughout the United States during a three months' period in 1920 and found few who would admit there was a construction industry. No governor of a Federal Reserve Board knew what it was. Therefore a tabulation of statistics was made, supervised by one of our Executive Board members, which was published by the Chamber of Commerce of the United States in a special bulletin dated June 17, 1921, from which some of the following figures and facts are abstracted.

The largest single industry of this country is agriculture. The second largest is the construction industry, which includes not only the final assembly of materials as handled by members of this Association, but also the preparation of all materials from their original raw state in nature, including transportation.

The three necessities of life are food, clothing and shelter, and to make these available requires transportation. The construction industry includes the production of shelter and transportation and subsidiary activities.

Birth of Construction Industry

As soon as man emerged from his primitive state and required resources other than those of the lower animals, the construction industry was born.

The popular belief is that American industry is divided into five basic divisions, namely, agriculture, manufacture, transportation and communication, mining and lumber. A separate classification known as construction is now being created that may somewhat readjust these classifications. The Nation's wealth in 1920 was estimated at $290,000,000,000. The amount of this produced by the construction industry is $77,321,000,000.

Aside from agriculture 42 per cent. of all persons engaged in gainful occupation are engaged in manufacture. These concerns employed, by the census of 1914, 10,658,000 workers. Deducting public service employees, professional occupations and domestic service from those engaged in gainful occupations outside of

(Continued on page 340)



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Residences (46), Boyer and Strafford streets, $195,800. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut Terrace, Philadelphia. Brick, 2 stories, 25x24½ feet and 24½x24½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Garage (alts.), 1716 North Fawn street, Philadelphia, $4,000. Architect, private plans. Owners, George Kessler Cont. Co., 911 Drexel Building, Philadelphia. General interior alterations. Owner will build.

Factory, Memphis and Eyre streets, Philadelphia. Engineers, P. M. Sax & W. W. Hibbert, Penfield Building, Philadelphia. Owners, A. J. Reach Co,. Tulip and Palmer streets, Philadelphia. Reinforced concrete and steel, 4 stories, 100x143 feet, slag roof, cement floors, roof ventilators, fire doors, rolled steel sash, electric lighting, steam heat, (1) elevator. Plans in progress. Will take bids in four weeks.

Office, Store Room and Service Station, Broad and Lehigh avenue. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Traylor Eng. & Mfg. Co., on premises. Granite, limestone and brick, 8 stories, 205x124 feet, slag roof, concrete floors, safety treads, terra cotta (heating, lighting, plumbing and elevators reserved). Architects taking bids due May 29th.

Residences, Upsal street, West of Wissahickon avenue. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, M. Seideman, 121 North Seventh street, Philadelphia. Stone, 2½ stories, 31x40 feet, garage, 1 story, 16x22 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work, cement work. Architect taking bids due May 29th at noon.

Stores and Residences (2), Princeton and Torresdale avenue. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, James W. Orr, Bustleton, Pa. Brick and steel, 2½ stories, 20x58 feet, slate and slag roof, composition and hardwood floors, hot water heat, electric lighting. Owner will build.

Garage, 910-918 Spring street, Philadelphia. Architect, Sol Kaplan, 929 Market street, Philadelphia. Owner, name withheld. Brick, steel and concrete, 2 stories, 94x100 feet, steam heat, composition roof, electric lighting, cement and plank floors, cut stone. Plans in progress. Will be ready for bids in two weeks.

Residence, Germantown, 1020 Upsal street. Architect, private plans. Owner, John A. Seeds, Upsal street, Germantown. Stone, 2½ stories, 30x25 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Owner taking bids due May 24th.

Residence, Mill road, Montgomery county, Pa. Architect, Robeson Lee Perot, 137 Harvey street, Germantown. Owner, name withheld. Cement and brick work, walks, grading, interior alterations. Plans in progress. Will take bids in one week.

Residence and Garage, Wayne avenue, near Lincoln Drive. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, A. D. Seideman, 121 North Seventh street, Philadelphia. Stone, 2½ stories, 40x36 feet, 15x10 feet, slate roof, oak and pine floors, hot water heating, electric light, tile work. Architect taking bids due May 29th.

Kershaw Hall (alts.), School Lane and Greene street, Germantown. Architect, Robeson Lee Perot, 137 Harvey street, Germantown. Owners, Germantown Academy, on premises. General alterations, excavation, brick and stone work, hardwood ffloors, iron work, plumbing, metal sash, roofing. Plans in progress. Architect will be ready for bids in ten days.

Sales and Office Building, Seventeenth and Parkway, Philadelphia. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, Dr. B. McGinnis, care of architect. Brick, 2 stories, 18x70 feet, slag roof, pine and composition floors, steam heat, electric light, tile work. Will be ready for bids in two weeks.

Bank and Office Building, 1406-8-10 South Penn Square, Philadelphia. Associate architects, Furness-Evans Co., 315 South Fifteenth street, Philadelphia, and McKim, Meade & White, 101 Park avenue, New York City. Owners, Girard Trust Co., Broad and Chestnut streets, Philadelphia. Stone, brick, concrete and steel, 8 stories, 80x80 feet, elevators, marble and tile work. Plans in progress. Furness-Evans Co., Philadelphia, will take bids.

Office Building, 33-37 South Fifteenth street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Martin I. Isen, 915 Walnut street, Philadelphia. Stone, brick, concrete and steel, 5 stories. Plans in progress. Too early for details.

Commercial Museum (add.), Thirty-fourth and Spruce streets, Philadelphia. Associate architects, Stewardson & Page, 315 South Fifteenth street; Wilson, Eyre & McIlvain, 1003 Spruce street, and Day & Klauder, 1416 Chestnut street, Philadelphia. Brick, 2-story add., tile roof, cement floors, hollow tile, steam heat, electric light, metal lath. Plans in progress. Will be ready for bids in six weeks.

Stores and Offices, Southeast Corner Sixteenth and Sansom streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, J. J. Greenberg, Morris Building, Philadelphia. Brick, stone, concrete and steel. Plans in progress. Too early for details.

Commercial Building, Southwest Corner Eleventh and Indiana avenue. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelhia. Owner, name withheld. Reinforced concrete, 2 stories and basement, 110x225 feet, Barrett roof, concrete floors, elevator, sprinklers, ribbed glass, floor hardener, hollow metal skylights, rolled steel sash, steam heat, electric light, plumbing. Architect will be ready for bids in ten days.

Residence, 186 East Huntingdon street, and **Store and Residence (alts. and add.)**, 2552 Kensington avenue. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owner, Louis Snyder, on premises. Brick, 2 stories, 20x50 feet, slag roof, oak and pine floors, tile and marble work, iron work. Revised plans in progress.

Building (alts. and add.), 107-09 South Second street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, M. B. Leventhal, on premises. Brick front, 5 stories, plate glass, cement work, maple floors, metal ceilings, marble work (heating, lighting, plumbing and elevators reserved). Revised plans in progress.

Residence, St. Martin's, Philadelphia. Architect, Robert Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, W. Griffin Gribbel, 1513 Race street, Philadelphia. Stone and stucco. Plans in progress. Architect will take bids in about three weeks.

Residence, Sherwood road, Overbrook, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories. Plans in progress.

Church (add.), Rockland and Mascher streets, Philadelphia. Architects, Jacob Naschold, 5224 North Second street, Philadelphia. Owners, German Tabor Church, Rev. Fred Flothmeier, premises. Stone, 1 story and basement, 27x61 feet, slate and slag roof, pine floors. Plans in progress. Architect will be ready for bids in two weeks.

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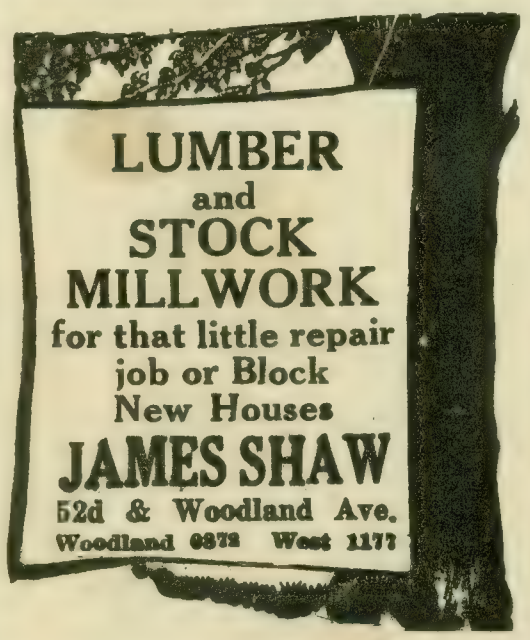
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500,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, on premises. Brick, concrete and cut stone, 2 stories, 300x145 feet, slag roof, concrete and mastic floors, waterproofing and dampproofing, bronze work, iron work, rolled steel skylights, tile and marble work, metal lath, electric light, steam heat. Architect taking bids due June 1st.

Office Building, Southeast Corner Sixteenth and Walnut streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Heymann & Brothers, Widener Building, Philadelphia. Brick, granite, cut stone and steel, 12 stories and basement, 42x145 feet, slag roof, concrete floors, dampproofing, terra cotta, iron work, kalamein and hollow metal doors, rolled steel skylights, hollow metal sash, marble and terrazzo (plumbing, electric work; heating and elevators reserved). Architect taking bids due May 26th at 3 P. M.

Shelter and Wading Pool, Nineteenth and Wiley streets. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Works, Bureau of Recreation, 216 City Hall, Philadelphia. Concrete, 69x33 feet, shelter surrounding pool, shingle asbestos roof, concrete floors, bond, waterproofing, iron work. Owners taking bids due May 26th at noon.

Maternity Hospital (alts.), Thirty-fourth and Pine streets. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Health, Bureau of Charities, City Hall, Philadelphia. Demolition, masonry, carpentry, mill work, plastering, composition and cork tile floors, painting, glazing, hardware. Owners taking bids due May 26th.

Home Building, Broad and Ontario streets, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets. Owners, Masonic Home of Pennsylvania, Freeland Kendrick, President, City Hall, Philadelphia. Brick, concrete and steel, 3 stories, 160x200 feet, slag roof, composition, mastic, concrete and maple floors, hollow tile, safety treads, waterproofing, iron work and stairs, floor hardener, tin-clad fire and kalamein doors, tile, marble and terrazzo, metal lath (plumbing, heating and lighting reserved). Architects taking bids due May 26th.

New Bulks and Fire Tower, 125-27 South Thirteenth street, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Millard's Dress Shop, on premises. Brick and steel, 4 stories, slag roof, oak floors, carpentry, mill work, plastering, painting, glazing, plate glass, Cloisom-A floors, bond, hollow metal doors, marble work, metal lath, heating and lighting repairs, plumbing. Architect taking bids due May 26th.

Federal Sub-Station 6th and Federal sts., Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., 1000 Chestnut street. Brick, cut stone and steel, 2 stories, 114x66 feet, slag roof, concrete floors, steam heat, marble work, waterproofing, terra cotta, bond. Architect taking bids due May 25th.

Bungalows (2), Fairthorn avenue, Roxboro, Philadelphia. Architect, private plans. Owner, William Lentz, 239 Roxboro avenue, Roxboro. Brick and frame, 1½ stories, 16x56 feet, asphalt shingle roof, oak and pine floors, hot water heat, electric lighting, tile work. Owner is ready for sub-bids.

Residence (alts.) to 2-Family Apartment, Philadelphia. Architect, William H. Snyder, 471 Gerhard street, Roxboro. Owner, name withheld. Brick, add. 1 story, 10x13 feet, carpentry, mill work, tin roof, pine floors, plastering, electric work. Architect taking bids due as soon as possible.

Post Office (alts.), Ninth and Market streets, Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Carpentry, mill work, painting, glazing. Owners taking bids due May 26th.

Miscellaneous Work, Department of Public Works, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Frank H. Caven, Director, 232 City Hall, Philadelphia. Grading, paving, repaving, grading Beaumont avenue from Sixty-fifth street to Cobb's Creek Boulevard and retaining wall, construction of Bridge Deck, wood block paving and structural steel for bridge work. Owners taking bids due May 29th at noon. Inquire Room 232.

Residence, 2203 Naudain street, Philadelphia. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Robert Williams, care of architect. Brick, 2 stories, 17x43 feet, slag roof, pine floors, hot water heat, electric lighting. Architect taking bids.

Store (alts.), 1017 Market street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Carpentry, mill work, oak floors, painting, glazing, metal ceilings, tile work, bond, metal bulks. Architects taking bids immediately.

Residences (24), Limekiln Pike, Middleton street to Walnut Lane, $146,000. Architect, private plans. Owner, J. J. Kelly, 6728 Old York Road, Philadelphia. Brick, 2 stories, 16x32 feet, 11x12 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residence, Northeast Corner Fifty-fourth and Wynnefield avenue, Philadelphia, $30,000. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, N. Raidman, 5130 Walnut street, Philadelphia. Brick and steel, 1 and 3 stories, 35x26 feet, 51x37 feet, slag roof, oak and yellow pine flfloors, hot water heat, electric light, tile work. Owner will build.

Residences (3), North side Hamilton street, East of Thirty-eighth street, $31,100. Architect, private plans. Owner, James J. Moore, 4039 Lancaster avenue, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 42 feet and 16x31 feet, 13x11 feet, slag roof, oak and yellow pine floors, hot water heat, electric lighting. Owner will build.

Coal Trestle (add.), Southwest Corner Twenty-sixth and Christian streets, $30,000. Architect, private plans. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Concrete work. Owner will build.

Residences (2), South side Buist avenue, West of Seventy-ninth street, $10,000. Architect, private plans. Owner, David Finn, 2434 North Lawrence street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (9), West side Rising Sun avenue, South of Louden street, $5,000 each, and

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Residence and Store, Rising Sun avenue and Louden street (Southwest Corner), $7,000. Architect, private plans. Owner, M. Cylinder, 5734 Chestnut street, Philadelphia. Brick, 2 stories, 22 feet and 12x49 feet and 15x38 feet, 13x11 feet, slag roof, oak and yellow pine floors, hot water heat, electric lighting. Owner will build.

Garage, 4350-52 Paul street, Philadelphia, $7,500. Architect, private plans. Owner, Harry Kravitz, 4431 Frankford avenue, Philadelphia. Brick, 1 story, 17x341 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Office and Warehouse, Northeast corner A and Allegheny avenue, $25,000. Engineers, M. Ward Easby Co., 1814 Chestnut street, Philadelphia. Owners, A. Holmes & Son, on premises. Brick, 1 and 2 stories, 54x74 feet, 12x18 feet and 36x50 feet, slag roof, oak and yellow pine floors, steam heat, electric light. Engineers will build.

Residences (22), Ogontz and Sixty-fifth avenues, Philadelphia, $144,000. Architect, private plans. Owner, Frank D. Williams, 3819 Pulaski avenue, Philadelphia. Brick, 2 stories, 20x33½ feet and 20x46 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (19), East side C street, South of Ruscomb street, $95,000. Architect, private plans. Owners, T. P. & J. P. McFarland, 2409 East Allegheny avenue. Brick, 2 stories, 15 feet 3 inches x 28 feet, 11 feet 5 inches x 10 feet, slag roof ,oak and yellow pine floors, hot water heat. Owner will build.

Residences (2) (alts. and add.), 6515-17 Woodland avenue, $14,000. Architect, H. W. Pedrick, Darby, Delaware County, Pa. Owner, Anna M. Keller, on premises. Brick, cut stone, 3 stories, 36x7 feet and 33½x35 feet, slag roof, oak, maple floors, steam heat, electric light, tile work, metal lath. Owner will build.

Building (alts.), South side Wyoming avenue, West of Second, $12,000. Architect, private plans. Owners, Philadelphia Rapid Transit Co., 810 Dauphin street. General alterations. Owner will build.

Residences (28), West and East sides Marsden street, South of Princeton street, $4,000 each, (2) 1651-53 Conklin street, $6,000 each, and (3) East side Erdrick street, South of Comly, 3,900 each. Architect, private plans. Owner, James W. Orr, Bustleton avenue and Knorr street, Philadelphia. Brick, 2 stories, 16x43 feet, 16x47 feet, 16x36 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (2), 7034-36 Glenlock street, $8,000 each. Architect, private plans. Owner, E. Samuel Gercke, 3030 Tyson street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (39), Ogontz and Independence avenues, Ogontz; Sixty-seventh and Sixty-eighth avenues; Sixty-seventh avenue, East of Twentieth street, $143,500. Architect, private plans. Owner, Russell H. Foster, 6908 North Broad street, Philadelphia. Brick, 2 stories, 17 feet 4 inches x 40 feet, 16 feet 9 inches x 40 feet, 15x40 feet and 15x30 feet, 12x9 feet, slag roof, hot water heat, electric light. Owner will build.

Residence, West side Front street, North of Wyoming avenue, $6,000. Architect, private plans. Owner, F. H. Greenwald, 455 East Wyoming avenue, Philadelphia. Brick, 2 stories, 15x50 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence, North side Allen's Lane, East of Lincoln Drive, also **Garage,** $19,500. Architect, Edmund D. Salter, Parkside and Wynnefield avenues, Philadelphia. Owner, Herbert E. Weitzel, Germantown and Sedgley avenues. Stone, 3 stories, 44 feet 8 inches x 27 feet, 18x14½ feet, slate roof, oak and yellow pine floors, tile work, hot water heat. Owner will build.

Residence (alts. and add.), 3619 North Nineteenth street, $3,000. Architect, Charles F. Schaef, 2203 South Twenty-fourth street, Philadelphia. Owner, Charles I. Gudner, on premises. Brick, 2 stories, 15x7 feet, 15x6 feet, slag roof, yellow pine and oak floors, electric light. Architect will build.

Residence, Southwest Corner Eighth and Rockland streets, $8,000. Architect, private plans. Owners, W. Fischer's Sons, Eighth and Rockland streets, Philadelphia. Brick, 2 stories, 16x35 feet, 20x14½ feet, slag roof, yellow pine floors, hot water heat. Owner will build.

Lunch Room, Northwest Corner Torresdale avenue and N street, $4,500. Architect, private plans. Owners, Louis Walther Mfg. Co., Torresdale avenue and N street. Galvanized iron, 1 story, 40x60 feet, iron roof, yellow pine floors. Engineer, Lincoln H. Smith, 1530 Real Estate Trust Building, will build.

Residence, North side Washington Lane, East of Anderson street, $4,800. Architect, private plans. Owner, Frank Green, 2654 West Seltzer street, Philadelphia. Brick, 2 stories, 22x34 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (4), 4674-76 to 80 North Sydenham street, $4,200 each. Architect, private plans. Owner, William Cooper, 4680 North Sydenham street, Philadelphia. Brick, 2 stories, 15x30 feet, 11 feet 7 inches x 9 feet 9 inches slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Garage, 4335 North Marshall street, Philadelphia, $2,800. Architect, private plans. Owner, Arthur Wollerton, 4150 Darien street, Philadelphia. Brick, 1 story, 24x21 feet, 16x71 feet, slag roof, cement floors. Owner will build.

Building (add.), Northeast Corner Victoria and Frankford avenue, $2,000. Architect, private plans. Owner, Fred H. Hunt, Jr., 3615 Frankford avenue, Philadelphia. Brick, 2 stories, 18x15½ feet, slag roof, yellow pine floors, electric lighting. Owner will build.

Office Building (add.), Allegheny and Germantown avenues, Philadelphia. Architect, private plans. Owners, Air Reduction Co., 342 Madison street, New York City. Second floor addition. Owners taking bids.

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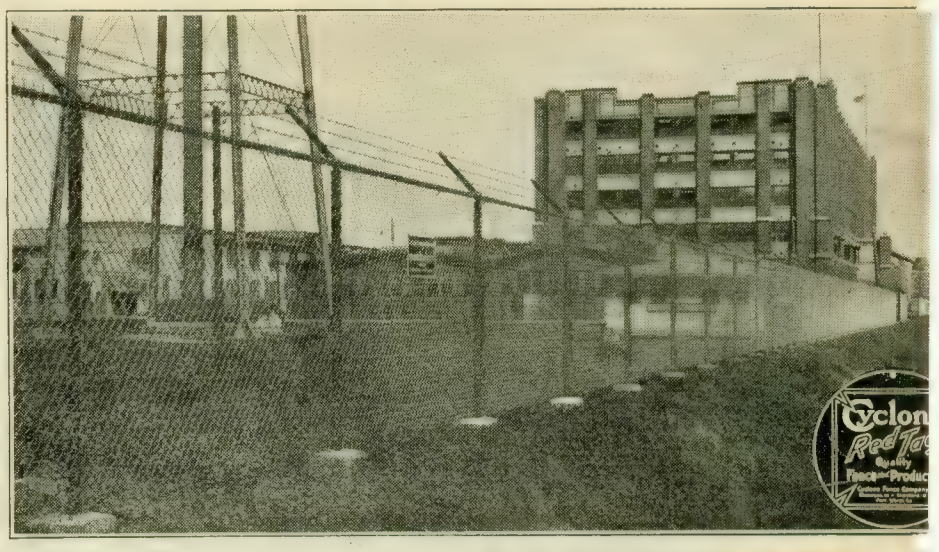
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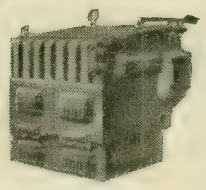
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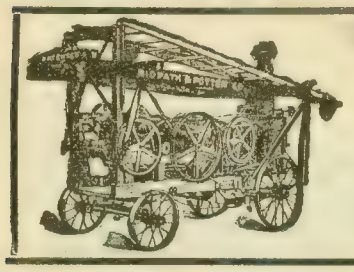


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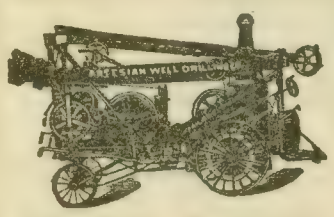
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Warehouse and Office, 937 North Front street, Philadelphia, $10,000. Architect, private plans. Owner, Gurnsey Stevenson, 1524 Chestnut street, Philadelphia. Brick, 1 story, 20x140 feet, slag roof, maple floors, electric light, steel sash, galvanized iron skylights. Contract awarded to Carr & Courtney, Twenty-third and Green streets.

Warehouse, Northwest Corner Mascher and Lippincott streets, $24,800. Architect, private plans. Owners, American Stores Co., 424 North Nineteenth street, Philadelphia. Brick, 1 story, 100x113 feet, slag roof, concrete floors, steam heat, electric light. Contract awarded to A. B. Kister, 1228 Locust street.

Garage, 2040-42-44 North Hancock street, Philadelphia, $10,000. Architect, private plans. Owner, William Berlinger, on premises. Brick, 1 story, 48x55 feet, 16x46 feet, slag roof, cement floors. Contract awarded to George Kessler Cont. Co., Drexel Building.

Store, 5030 York road, Philadelphia, $3,000. Architect, private plans. Owner, T. Galanos, Sixtieth and Larchwood avenue, Philadelphia. Brick, 1 story, 29x20 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Co-operative Builders, 112 North Sixtieth street.

Office Building, 1015 Chestnut street, $2,500,000. Architects, Weber & Wurster, 403 Morris Building, Philadelphia. Owners, Roop & Baschore, care of architects. Brick, steel, terra cotta and limestone, 15 stories, 69x163 feet, slag roof, concrete and maple floors, hollow tile and metal lath, (5) elevators, metal ceilings, plate glass, iron work and stairs, fire doors, hollow metal sash and skylights, tile, marble and terrazzo, steam heat, electric lighting. Contract awarded to P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia.

Office Building, Northeast Corner Walnut and Juniper streets, Philadelphia, $1,500,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Middle City Realty Co., Juniper and Walnut streets. Brick and cut stone, 17 stories, basement and boiler room, 230x53 feet, slag roof, cement floors, vacuum steam heat, electric light, metal lath, marble work, rolled steel skylights, bond, iron stairs and work, hollow tile, elevators, waterproofing, architectural terra cotta (structural metal work reserved). Contract awarded to F. W. Mark Cont. Co., Commercial Trust Building, Philadelphia.

Warehouse, Glenwood and Oxford street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Harry C. Kahn, Eleventh and Filbert streets, Philadelphia. Reinforced concrete and brick, 6 stories, irregular, 170x111x230 ft., slag roof, cement floors, dampproofing, iron work, tin covered doors, hollow metal skylights (heating, plumbing, electric work and elevators reserved). Contract awarded to Nelson Pedley Const. Co., Inc., 1615 Spruce street, Philadelphia.

Office and Loft Building, 1312-14-16 Arch street. Architect, Leroy B. Rothschild, 1225 Sansom street. Owner, J. C. Kahn, Morris Building, Philadelphia. Brick, concrete, steel and cut stone, 10 stories, 66x134 feet, slag roof, concrete and maple floors, metal lath, tile and marble, hollow metal sash and skylights, kalamein and hollow metal doors, iron work, dampproofing, terra cotta. Contract awarded to Nelson Pedley Const. Co., Inc., 1615 Spruce street, Philadelphia.

Service Station, Franklin Square, Philadelphia. Architects, William Steele & Sons Co., 1604 Arch street, Philadelphia. Owners, Commercial Truck Co., care of H. J. Wright, Hunting Park and Rising Sun avenue, Philadelphia. Reinforced concrete, steel and brick, 3 stories and basement, 160x175 feet, slag roof, cement floors, (1) elevator, roof ventilators, fire doors, rolled steel sash, electric light, steam heat. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Factory (add.), Chelten avenue and Baynton street, Germantown. Engineer, Edward G. MacGannon, Perry Building, Philadelphia. Owners, Dearnley Brothers Worsted Spinning Co., Inc., on premises. Concrete, brick and steel, 3 stories, 74x98 feet, slag roof, concrete and maple floors, rolled steel sash, kalamein doors, bond, floor hardener (heating, lighting, plumbing and elevator reserved). Contract awarded to Hughes-Foulkrod Co., Commonwealth Building, Philadelphia.

Office (fire repairs), 1309 Walnut street, Philadelphia, $14,000. Architect, private plans. Owners, Heymann & Bro., Widener Building, Philadelphia. Sheet metal work, painting, glazing, slag rooof, pine floors, plastering, electric lighting, metal lath. Contract awarded to John Schnabel, Inc., Denckla Building.

Apartment House, Northwest Corner Forty-fourth and Osage avenue, $40,000. Architect, A. Lynn Walker, 4033 Walnut street, Philadelphia. Owner, R. T. McDonald, 4025 Chestnut street, Philadelphia. Brick, 4 stories, 50x102 feet, slag or composition roof, oak, composition and cement floors, vapor heat, electric light, tile and marble work, metal lath. Contract awarded to J. H. Walker, Forty-fourth and Osage avenue.

Pavilion, Twenty-seventh and Clearfield streets, $5,000. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Brick, 1 story, asbestos shingle roof, cement floors. Contract awarded to Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, Philadelphia.

Pool and Bath House, Second below Cumberland street, $20,000. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, 595 City Hall. Brick, granite, limestone and steel, 1 story, 53x108 feet, slag and tile roof, concrete roof, iron work, waterproofing. Contract awarded to Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, Philadelphia.

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Factory (alts.), West side Frankford avenue, North of Westmoreland street. Architects, Stewart A. Jellett Co., 1200 Locust street, Philadelphia. Owners, Thomas Wolstenholme & Son, 3300 Frankford avenue. General interior alterations, carpentry and mill work, painting, glazing, cement work. Contract awarded to Carson & Carson, 22 South Fifteenth street, Philadelphia.

Residence and Garage, Gates and Shalkop streets, $15,000. Architect, A. C. Borzner, 721 Walnut street. Owner, George Forster, Roxboro, Philadelphia. Hollow tile and stucco, 2½ and 1½ stories, 39x31 feet and 19x21 feet, shingle roof, oak floors, hot water heat, electric light. Contract awarded to William H. Eddleman & Son, 453 Green Lane.

Residences (2), Lincoln Drive and Sedgwick street, $30,000. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, James M. Armstrong, 718 Sansom street, Philadelphia. Brick, 2½ stories, 42x25 feet, slate roof, hot water heating, electric lighting, tile work, cement work, hardwood floors. Contract awarded to Triangle Const. Co., 44 Armat street.

Residence and Garage, Allen's Lane, Germantown. Architects, S. D. Hawley & Co., 30 South Seventeenth street. Owner, A. Sidney Jenkins, care of architect. Stone, 2½ stories, 30x41 feet and 39x44 feet, slate roof, oak and pine floors, iron work, plumbing, heating, lighting and bond. Contract awarded to John E. Kearney, 34 South Seventeenth street.

Stores and Residences, 2508-10 Lehigh avenue, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, George Mondschein, on premises. Brick, terra cotta and steel, carpentry, slag roof, cement work, plumbing (heating and lighting reserved). Contract awarded to Max Siegel, 1837 North Franklin street.

Garage, Pomona street, Germantown, Philadelphia. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owners, Smedley & Kidder, care of architect. Stone, 1 story, slag roof, cement floor, electric light. Contract awarded to George P. Clayton, 1817 North Twentieth street.

Residence (alts.), Thirty-first and Midvale avenue, $15,000. Architect, L. V. Boyd, Harrison Building, Philadelphia. Owner, Lee Souders, care of architect. General alterations. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Residence, Northwest Corner Graver's Lane and Navahoe street, Philadelphia. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, M. L. Gehringer, care of architect. Stone, 2½ stories, 58x31 feet, slate roof, oak and pine floors, tile and iron work (heating, lighting and plumbing reserved). Contract awarded to Ralph C. Borthwick, 8018 Germantown avenue.

Residences (6), McCallum street and Mt. Airy avenue, Philadelphia. Architect, R. M. McCaskey, Estey Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 20x30 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to Carson Brothers, 5601 Germantown avenue.

Residence (alts.), 322 South Sixteenth street, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Dr. M. V. Leof, 1626 Spruce street, Philadelphia. General alterations to three and four-story building, marble front, tile and marble work, electric lighting, heating extensions, carpentry, mill work. Contract awarded to F. A. Havens Co., 845 North Nineteenth street.

Garage, St. Martin's, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building. Owner, Mrs. Nathan A. Taylor, 416 Westmoreland street. Contract awarded

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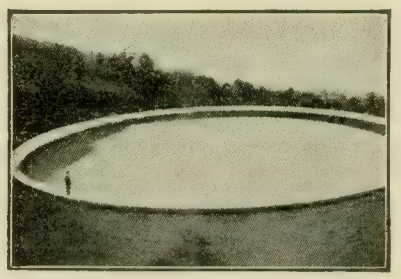
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Store (alts.), Northeast Corner Tenth and Chestnut streets, $2,500. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Stores, Inc., New York City. Carpentry, mill work, plastering, plumbing, painting, sheet metal work, bond, iron and steel, tile and marble (copper, kalamein, electric work and plate glass reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Residence, North side Sixty-fourth avenue, West of Seventh street, $14,000. Architect, private plans. Owner, Joseph Clapham, Sixth and Chestnut strets, Philadelphia. Brick, 3 stories, 40x36 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Residence, North side Queen street, East of Thirty-fourth street, $8,500. Architect, private plans. Owner, M. Pratt, 3425 Sunnyside avenue, Philadelphia. Hollow tile, 3 stories, 23½x39 feet, shingle roof, oak and yellow pine floors, hot air heat, electric light. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street.

Garage, 2426-28 West York street, Philadelphia, $6,500. Architect, private plans. Owner, William Fogarty, 2428 West York street, Philadelphia. Brick, 1 story, 36x63 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to D. H. Fowler & Co., 2002 North Eighteenth street.

Warehouse, Southeast Corner Eighteenth and Washington avenue, $9,500. Architect, private plans. Owner, Ignatius J. Horstman, 315 Fitzwater street, Philadelphia. Carpentry, mill work, concrete work, plastering. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Residence and Store (alts. and add.), 3926 Market street, $9,000. Architect, private plans. Owner, Samuel Wiener, on premises. Brick, 3 stories, 12x34 feet, slag roof, yellow pine floors, hot water heat, electric light, tile work. Contract awarded to Terminal Const. Co., 6019 Market street.

Residence and Store (add.), Northeast Corner Seventh and Catharine streets, $7,600. Architect, private plans. Owner, Julius J. Saki, on premises. Brick, 3 stories, 19x36 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Cerasoli & Scurci, 1709 South Eleventh street.

Residences (10), East side Frankford avenue, North of Allengrove, $105,000. Architect, private plans. Owner, William H. Yellin ,1350 Harrison street, Philadelphia. Brick, 3 stories, 16x26 feet, 12x29 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to C. C. Carn, 1654 Dyre street, Philadelphia.

Building (alts.), 318-20 South Delaware avenue, $7,000. Architect, private plans. Owner, Charles Eggleston, 1005 Bailey Building, Philadelphia. General fire repairs. Contract awarded to D. Goldstein, 1538 South Sixth street.

Residence, West side Hasbrook street, North of Robbins, $6,100. Architect, private plans. Owner, E. Orrell Crap, 7312 Tabor street, Philadelphia. Frame, 2 stories, 26x33 feet, 12x7 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to H. W. Myers, 5814 Hasbrook avenue, Philadelphia.

Garage, 2309-19 North Sydenham street, Philadelphia, $7,000. Architect, private plans. Owner, I. Harrison, 2320 North Broad street, Philadelphia. Brick, 1 story, 50x80 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Daniel J. McNamee, 1621 North Fifteenth street.

Residence and Store (alts.), Southwest Corner Fourth and Spruce streets, $6,000. Architect, private plans. Owner, J. H. McBride, 273 South Fourth street, Philadelphia. General interior alterations. Contract awarded to D. Gilman, 2319 South Tenth street, Philadelphia.

Residence and Store (alts.), 8525 Germantown avenue, $5,294. Architect, private plans. Owner, Frank P. Streeper, on premises. General alterations, carpentry, mill work, painting, glazing. Contract awarded to John E. Walt, 204 East Willow Grove avenue.

Garage, 4156 Ridge avenue, Philadelphia, $5,000. Architect, private plans. Owner, Mrs. Whelan, Falls Hotel, Philadelphia. Brick, 1 story, 30x105 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Mitchell-Houseworth Co., 2512 North Twenty-seventh street.

Residences (4), West side Argyle street, South of Levick, $5,000 each. Architect, Christian Fries, 8237 D street, Philadelphia. Owners, M. Barr and Casper H. Neuman, Lawndale, Pa. Brick, 2 stories, 15x50 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Garthly Brothers, 931 Hellerman street.

Residences (2), West side Montour street, North of St. Vincent, $6,500 each. Architect, private plans. Owner, Samuel Rothamel, 2631 North Thirteenth street, Philadelphia. Brick, 2 stories, 16x50 feet 4 inches, slag roof, oak and pine floors, hot water heating, electric lighting. Contract awarded to Walter J. Erwin, 3522 North Fifteenth street.

Residence, Northeast Corner Walnut Lane and Houghton street, $12,000. Architect, private plans. Owners, John T. and Anna J. Becht, 4500 Umbria street, Philadelphia. Stone, 2 stories, 30x49 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to Brown Const. Co., 105 Levering street.

Residences, 4324 Paul street, Philadelphia, $5,000. Architect, private plans. Owner, John A. Quinn, 4326 Paul street, Philadelphia. Brick, 2 stories, 14 feet 8 inches x 55 feet 4 inches, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to George Rimer, 4842 Hawthorne street.

Swimming Pool, 25 South Van Pelt street, Philadelphia, $30,000. Architect, David B. Bassett, 1520 Locust street, Philadelhia. Owners, Big Brothers Association, on premises. Brick, 1 story, 25x68 feet, slag roof, concrete floors. Contract awarded to Frank G. Stewart, 1619 Sansom street.

Residence and Store (add.), 5215-17 Market street, $9,300. Architect, private plans. Owners, West End Furniture Co., on premises. Brick, third story add., 40x100 feet, slag roof, yellow pine floors, steam heat, electric light, rolled steel skylights. Contract awarded to P. Haibach Cont. Co., 1261 North Twenty-sixth street.

Residence and Store (alts. and add.), 1213-15 East Chelten avenue, $11,000. Architect, private plans. Owner, Samuel Goldfarb, 6717 Limekiln Pike, Philadelphia. Brick, 1 story add., 38x63 feet, slag roof, oak and yellow pine floors, bulk windows, plate glass. Contract awarded to S. S. Billingsley, 1230 East Chelten avenue.

Hall, East side Germania street, North of Linden avenue, $6,000. Architect, private plans. Owner, Louis J. Gedicke, 3618 Frankford avenue, Philadelphia. Brick, 1 story, 50x75 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Thomas Duff, 4666 Wyoming avenue, Philadelphia.

Residence and Store, Southeast Corner Fifty-sixth and Haverford avenue, $5,000. Architect, private plans. Owner, H. Miller, on premises. Brick, 2 stories, 26x30 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Christian E. White, 6217 Girard avenue.

Apartment (alts. and add.), 1904 North Thirteenth street, $4,000. Architect, private plans. Owner, Henry Shoemaker, on premises. Brick, second and third story adds., 16&8 feet, slag roof, yellow pine floors, electric light. Contract awarded to Hynphreys & Stander, 1914 North Thirteenth street.

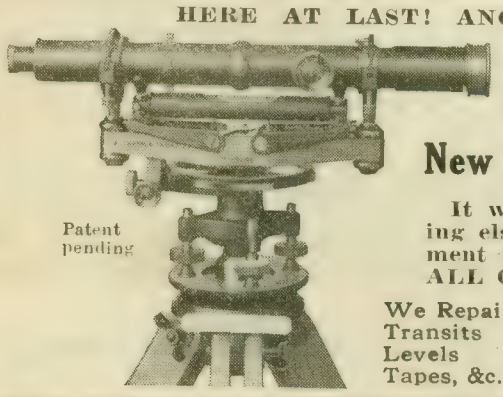
Residences (2), West side Tabor Road, North of Bleigh street, $4,500 each. Architect, private plans. Owners, J. R. & B. H. Dawson, 7414 Lawndale street. Brick, 2 stories, 16x45 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Contract awarded to Davis A. Gettel, 7321 Tabor Road.

Building (alts.), 422 South Broad street, Philadelphia. Architect, private plans. Owner, John F. Nolan, 842 North Broad street, Philadelphia. Carpentry, mill work, plastering, plumbing, hot water heat. Contract awarded to Henry P. Schneider, 3713 Old York Road.

Residences, South side Cottman street, West of Rising Sun avenue, $6,000. Architect, private plans. Owners, Burholme Garage, Burholme, Philadelphia. Brick, 2 stories, 16x35½ feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Joseph Disinger, Burholme, Philadelphia.

Residence, East side Claridge street, North of St. Vincent street, $4,400. Architect, private plans. Owner, John Moore, 3411 Orianna street, Philadelphia. Frame, 1 story, 25x41 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Con-

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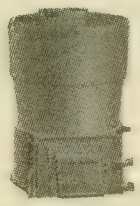
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11th and Ridge Avenue Philadelphia, Pa.

tract awarded to Arthur V. Turner, 1134 Fillmore street.

Garage, Northwest Corner Oregon avenue and Beulah street, $3,500. Architect, private plans. Owner, S. Levin, 720 Wolf street, Philadelphia. Brick, 1 story, 27x61 feet, slag roof, cement floors, electric lighting. Contract awarded to I. Farbstein, 917 Ritner street.

Stable (fire repairs), Northeast Corner Kensington and Lehigh avenues, $3,000. Architect, private plans. Owners, Philadelphia & Reading Railway, Reading Terminal, Philadelphia. Carpentry, mill work, slag roof, electric work, painting, glazing. Contract awarded to E. H. Keefer & Son, 1321 Rodman street.

Garage, East side Croskey street, South of Indiana avenue, $3,000. Architect, private plans. Owner, John Otto Jehle, Croskey and Indiana avenue. Brick, 1 story, 19½x124 feet, slag roof, cement floors. Contract awarded to M. Della Porta, 1624 South Fifteenth street.

Flush Bulk (alts.), 2519 West Thompson street, $3,000. Architect, private plans. Owner, Samuel Bush, Camden, N. J. Plate glass, metal bulks. Contract awarded to Louis Fine, 945 North Forty-second street, Philadelphia.

Garage, Northwest Corner Fourth and Luray streets, Philadelphia, $3,000. Architect, private plans. Owner, Chris Fieler, 1105 Harrison street, Philadelphia. Brick, 1 story, 33x46 feet, slag roof, cement floors. Contract awarded to Edw. B. Miller, 615 Pike street, Philadelphia.

Residence (add. and alts.), 5641 Spruce street, $2,800. Architect, private plans. Owner, Samuel Rutman, on premises. Brick, 1 story, 16x15 feet, slag roof, yellow pine floors. Contract awarded to S. Kravitz, 735 Morris street, Philadelphia.

Residence (add. and alts.), 5606 Chew street, $2,700. Architect, private plans. Owner, M. Swanfeld, 129 Tulpehocken street, Philadelphia. Brick, 1 story, 15x8 feet, slag roof, yellow pine floors. Contract awarded to M. Cotler, 1220 North Forty-second street.

Building (add. and alts.), 1510 South Bancroft street, $3,000. Architect, private plans. Owner, H. Dolfinger, Sixteenth and Tasker streets, Philadelphia. Brick, 1 story, 14x14 feet, slag roof, yellow pine floors, electric light. Contract awarded to William R. Dougherty, 1610 Sansom street.

Residence (alts. and add.), Northeast Corner Sixty-first and Pine streets, $2,250. Architect, private plans. Owner, S. Kashbijian, on premises. Brick, 2 stories, 16x10 feet, slag roof, yellow pine floors. Contract awarded to Co-Operative Builders, 112 North Sixtieth street.

Residence and Store (alts.), 6539 Woodland avenue, $2,400. Architect, private plans. Owner, B. I. Moss, 1111 Central avenue, Ocean City, N. J. Carpentry, mill work, painting, glazing. Contract awarded to Charles E. Futcher, 6930 Paschall avenue.

Building (fire repairs), 28 South Seventh street, $2,000. Architect, private plans. Owner, Louis Roserton, on premises. General fire repairs. Contract awarded to A. Sonnenfeld, 287 South Sixty-third street, Philadelphia.

Residence (add.), 2103 West Cambria street, Philadelphia, $2,000. Architect, private plans. Owner, Joseph Manfredi, on premises. Brick, 1 story, 16x18½ feet, slag roof, yellow pine floors, electric light. Contract awarded to Edward A. Fricke, 2437 West Hilton street.

Building (add.), 1203 West Erie avenue, Philadelphia, $2,000. Architect, private plans. Owner, F. H. Schneider, 3663 Old York Road, Philadelphia. Brick, 2 stories, 12 feet 9 inches x 15½ feet, slag roof, yellow pine floors. Contract awarded to Henry P. Schneider, 3713 Old York Road.

Garage, 1822-24 Willard street, Philadelphia, $3,870. Architect, private plans. Owner, John Pollock, 1825 East Madison street, Philadelphia. Brick, 1 story, 34x75 feet, slag roof, cement floor, electric light. Contract awarded to H. K. Kuster, 3029 Cedar street, Philadelphia.

Workshop, 2777 Emerald street, Philadelphia, $3,500. Architect, private plans. Owner, Herman Kerstein, 2754 Frankford avenue, Philadelphia. Stone, 1 story, 30x77 feet, slag roof, yellow pine floors. Contract awarded to Otto Malz & Son, 2002 North Fourth street.

Residence (alts.), Southwest Corner Forty-fifth and Locust streets, $3,500. Architect, private plans. Owner, Ralston H. Fought, 5112 North Twelfth street, Philadelphia. General alterations. Contract awarded to C. L. Hummerty, Oak Lane, Philadelphia.

Residence and Store (alts.), 2508-10 Lehigh avenue, $3,000. Architect, private plans. Owner, George Mondschein, on premises. General alterations. Contract awarded to Max Siegel, 1837 North Franklin street.

Building (alts.), 4349-51 Frankford avenue, $2,000. Architect, private plans. Owner, H. Kravitz, 4431 Frankford avenue, Philadelphia. General interior alterations. Contract awarded to J. W. Shunklin, 1961 North Stalcy street, Philadelphia.

Residence (add.), 3015 Richmond street, Philadelphia, $2,500. Architect, private plans. Owner, J. Marchwica, on premises. Brick, 2 stories, 12x14 feet 9 inches, slag roof, yellow pine floors. Contract awarded to Stephen Pietrykowski, 3074 Aramingo avenue, Philadelphia.

Residence (add. and alts.), 1819 North Thirty-first street, $2,000. Architect, private plans. Owner, S. Abrams, on premises. Brick, 1 story, 14x12 feet, slag roof, yellow pine floors. Contract awarded to S. Goldstein, 1749 North Thirty-first street, Philadelphia.

PENNSYLVANIA Construction News

Residences (16), Chester, Pa. Architect, private plans. Owner, R. H. Scroggins, Crozer Building, Chester, Pa. B rick, stucco, 2 stories, 20x30 feet, cement work. Owner will build.

City Hall (alts. and add.), York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. O wners, City of York, care of G. M. Bollinger, City Hall, York. Brick, 1 story, 20x65 feet, slag roof, hardwood floors, electric light, metal lath, roof ventilators, rolled steel skylights, general alterations. C. A. Boyer & Sons, York, Pa., lowest bidders.

Residence, Dover, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, Walter Drawbaugh, Dover, Pa. Brick, 2½ stories, 30x35 feet, tile roof, hardwood floors, steam heat, electric light, tile work. Owner subletting.

Residence, Aldan, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, H. M. Collins, care of architect. Hollow tile and stucco, 2 stories. Architect taking bids.

Stores (2), Apartments (4), Media, Pa. Architect, Newton Flounders, Media, Pa. Owner, P. Volkhardt, Media, Pa. Brick, 3 stories, slag and shingle roof, hardwood floors, hot water heat, electric lighting, tile work, metal bulks. Architect taking bids due May 31st.

School, Warminster, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Christ Home for Children, Warminster, Pa. Revised plans in progress.

War Tribute House, Merion, Pa., $180,000. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Donor, Eldridge Johnson, Camden, N. J., Merion Civic Association, Hy. Delaplain, president, Merion, Pa. Stone, 2 stories, 190x180 feet. Plans in progress. Architects will take bids in three months.

Repair Shops, Enola, Pa., $500,000. Architect (engineer), A. C. Shand, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Concrete and steel, 1 story, 100x600 feet. Plans in progress. Will be ready for bids in three weeks.

Farm House, Newtown Square, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, care of architect. Stone, 2½ stories, 30x40 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Revised plans in progress.

Residence (alts.), Womelsdorf, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Charles Williamson, Womelsdorf, Pa. General interior alterations, electric lighting, hardwood floors, partitions, plumbing. Plans in progress.

Apartment and Store, 1008 North Ninth street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Penn Trust Co., care of Mr. Kenney, Reading, Pa. Brick, 3 stories, 30x40 feet, Barrett specification roof, pine floors, electric light, tile work. Owners ready for bids.

Residence, Reading, Pa. Architect, G. C. Freeman, Sixth and Court streets, Reading, Pa. Owner, Warren Adams, St. Lawrence, Pa. Tapestry brick, 2½ stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light. Architect will take bids next week.

Store (add.), 47 South Sixth street, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owners, Hangen's Music Store, 47 South Sixth street, Reading. Brick, 2 stories, 30x86 feet, composition roof, hardwood floors, steam heat, electric light, metal lath, sash, roof ventilators, plate glass. Architect will be ready for bids this week.

Residence, Bywood, Pa. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x45 feet, slate or shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Will be ready for bids in ten days.

Bank (alts. and add.), East Downingtown, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Downingtown National Bank, care of T. Downing, president, East Downingtown, Pa. Marble, 2 stories, tile work, general interior alterations. Preliminary plans in progress.

Machine Shop (alts. and add.), Reading, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Berks Eng. Co., Sixth and Chestnut streets, Reading. Brick, structural steel, 1 story, 26½x232 feet, composition roof, wood floors, electric light, rolled steel sash and skylights. Plans in progress.

Store and Residence, Shillington, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, Ralph Wagner, 232 Penn street, Reading, Pa. Brick, 2 stories, 30x32 feet, slate roof, pine floors, hot water heat, electric light, metal lath. Plans in progress.

Club House, Berne Townships, Pa., $300,000. Architect, Earl Hickman, 119 South Fifth

street, Reading, Pa. Owner, Willow Brook Country Club, care of architect. Brick, stone, 2½ stories. Too early for details.

Church and Sunday School, Trexlertown, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Union Lutheran and Reformed Church, care of architects. Stone. Too early for details.

Home, Kutztown, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, American Legion, care of Edgar Bieber, Kutztown, Pa. Brick, 2 stories, 50x100 feet, slag roof, hardwood floors, vapor vacuum heat, electric light. Preliminary plans in progress.

Factory, Meyerstown, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, S. Levovitz & Son, care of architect. Slow burning construction, 3 stories, 50x100 feet, Barrett roof. Preliminary plans in progress.

Bungalow, Kirklyn, Pa. Architect, M. M. Boonin, 1506 North Alden street, Philadelphia. Owner, D. F. Ryan, 5916 Market street, Philadelphia. Frame and stucco, 1½ stories, 24x40 feet, shingle roof, oak floors, hot water heat, electric light. Owner is ready for sub-bids.

Residence, Kirklyn, Pa. Architect, M. M. Boonin, 1506 North Alden street, Philadelphia. Owner, D. F. Ryan, 5916 Market street, Philadelphia. Hollow tile and stucco, 2½ stories, 27x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner is ready for sub-bids.

Residence, Brookline, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, J. D. Mosser, Penfield, Pa. Frame, 2 stories, 25x45 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build and is taking sub-bids.

Residence, Sinking Spring, Pa. Architect, Warren D. Heinly, 542 Franklin street, West Reading, Pa. Owner, Mr. Ralph W. Gery, Sinking Spring, Pa. Brick, 2 stories, 42x42 feet, brick foundations, asbestos shingle roof, dampproofing, electric light, steam heat, oak and pine floors, cork or composition floors, steel basement sash. Owner will sub-let.

Printing Shop (alts. and add.), 30 North Sixth street, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, Fred Woerner, 32 North Sixth street, Reading, Pa. Brick, 1 story, 31x41 feet, steam heat, electric light, composition roof, rolled steel skylights. Owner will take bids.

Storage and Assembly Building, Primos, Delaware County, Pa. Architect, private plans. Owners, Jones Machine Works, Fifty-third and Lansdowne avenue, Philadelphia. Brick, steel and concrete, 1 story, 60x200 feet, slag roof, cement floors, steam heat, electric lighting. Owner will build.

School, between Glenolden and Norwood, Pa. Architects, C. W. Brazer & A. B. Dickhut, Chester, Pa. Owners, School Board of Ridley Park Township, Pa. Lowest bidders: H. John Homan, 1903 Chestnut street, Philadelphia, $68,472; McCloskey Co., 1620 Thompson street, $71,400. Electric, Buzby & Thomas, Bourse, Philadelphia, $2,849. Plumbing, William White, 2216 Ridge avenue, $5,300. Heating, Mech. Equip. Co., 1201 Sansom street, $12,874.

Court House (alts. and add.), Lancaster, Pa. Architect, J. Emlen Urban, Lancaster, Pa. Owners, County of Lancaster, Lancaster, Pa. Iron work, carpentry, mill work, plastering, hardware, plastering, sheet metal work, painting, glazing, electric work, metal lath, tile and marble work. County Commissioners, Court House, Lancaster, Pa., taking bids due May 30th at noon.

Laboratory, Laundry Building and Alts. to Old Hospital and Basement of Children's Pavilion, Harrisburg, Pa. Architects, Stevens & Lee, 9 Park street, Boston, Mass. Owners, Harrisburg Hospital, Harrisburg, Pa. Brick and steel, 2 stories and basement, 70x31 feet, composition roof, concrete and linoleum floors, metal lath ,waterproofing, terra cotta, iron work, kalamein doors (heating, lighting and plumbing separate bids). Architects taking revised bids due May 25th.

Residence and Store, Chambersburg, Pa., $20,000. Architect, Horace G. Kilmer, Chambersburg, Pa. Owner, George E. Gilbert, Chambersburg, Pa. Brick, 2 and 2 stories, 26x110 feet, stone and concrete foundations, built-up roof, hardwood floors, hollow tile, steam heat, electric light, tile and marble work, roof ventilators, metal ceilings, fire doors, ornamental iron work. Architect taking bids due June 1st.

Residence and Garage, Latham Park, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Milton Hinlein, care of architects. Stone, 2½ stories, 33x50 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Architects taking bids due May 26th.

High School, Downingtown, Pa. Architect, John H. Mowere, Phoenixville, Pa. Owners, Board of Education, Borough of Downingtown, Pa. Stone, 2 stories and basement, 135x72 feet, slate roof, pine floors, metal ceilings, iron work, bond, metal lath (heating, plumbing and lighting separate bids). Owners taking bids due May 25th.

Cattle and Hog Pen, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Croninger Packing Co., Shamokin, Pa. Brick and concrete, 5 stories, 50x77x28x52 feet, built-up roof, concrete and maple floors, roof ventilators, waterproofing, iron work, bond, rolled steel sash, electric work. Architect taking bids due May 27th.

Store and Apartment, Saxer avenue, South Springfield, Delaware County, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, H. J. Rittenhouse, 1426 Lindley avenue, Philadelphia. Brick, 2 stories, 20x48 feet, slag roof, oak and pine floors, dumb waiter, tile work, metal lath, electric lighting, steam heating. Architects taking bids due May 26th.

Residence, Haverford, Pa. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, Robert Liggett, care of architect. Frame and stucco, 2½ stories, 39x29 feet, wing 15x20 feet, shingle roof, oak and pine floors, hot water heat, electric lighting. Architect taking bids due May 30th.

Residence, Merion, Pa. Architect, Frank R. Seeburger, 1524 Chestnut street. Owner, Morris T. Greenwood, care of architect. Stone, 2 stories, 30x47 feet, shingle roof, hardwood floors, hot water heat, electric light. Architect taking bids due May 26th.

High School, New Nazareth, Pa. Architects, Rasmussen & Wayland, 252 West Forty-sixth street, New York. Owners, School Board, care of William I. Gold, president, Nazareth, Pa. Brick, 2 stories, 90x135 feet. Owners taking bids due June 19th.

Residence, Cynwyd, Pa. Architect, Stanford B. Lewis, 130 South Fifteenth street, Philadelphia. Owner, Mrs. E. J. Boldenweck, care of architect. Hollow tile and stucco, 2½ stories, 37x26 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Architect taking bids.

Factory, Twelfth street, Reading, Pa. Architect, Frederick A. Muhlenberg, Liberty Trust Building, Reading. Owner, No-Equal Hosiery Co., Thirteenth and Muhlenberg streets, Reading. Reinforced concrete, steel, 1 and 2 stories, 210x85 feet and 40x85 feet, wood and concrete floors, vapor vacuum heat, electric light, metal lath, rolled steel sash, fire and kalamein doors. Architect taking bids due May 25th.

Club (demolition and rebuilding), Tenth and Walnut streets, Reading. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, Northeaster Republican League, Mr. Singerly, Tenth and Walnut streets, Reading, Pa. Brick, 2 stories and basement, 54½x100 feet, slag roof, hardwood floors, vapor vacuum heat, electric light, metal lath, dumb waiter, terrazzo work. Owners taking bids due May 25th.

Garage, Hazleton, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Levovitz & Son, care of architect. Brick, 1 story, 30x20 feet and 8x15 feet, Barrett roof, hot water heat, electric light, concrete floors. C. J. Young, Hazleton, Pa., taking bids due May 25th.

Bank (alts. and add.), Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, First National Bank, J. Hengle, president, Reading. Brick, 1 story and basement, 35x30 feet, composition roof, marble floors, electric light, tile and marble work, skylights. Owners taking bids due May 25th.

Residence, Narberth, Pa. Architect, private plans. Owner, Joseph H. Miller, Narberth, Pa. Hollow tile and stucco, 2½ stories, 24x31 feet, shingle roof, oak floors, hot water heat, electric lighting. Owners taking bids due as soon as possible.

Pennsylvania Contracts Awarded

Residence (alts. and add.), Hanover, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, M. C. Jones, Hanover, Pa. Brick and frame, 2 stories, 30x30 feet, slate roof, hardwood floors, electric lighting, new plumbing. Contract awarded to O. H. Hostetter, Hanover, Pa.

Stores and Apartment (alts. and add.), York, Pa. Architect, Robert Stair, Guardian Trust Building, York, Pa. Owner, L. E. Herr, York, Pa. Brick and frame, asbestos shingle roof, tile work, general alterations. Contract awarded to G. W. Gilbert, York, Pa.

Factory (add.), Chester, Pa. Architect, private plans. Owners, Chester Lace Mills, Chester, Pa. Wood and galvanized iron, 1 story, 60x80 feet. Contract awarded to William Provost, Jr., Crozer Building, Chester, Pa.

School, between Glenolden and Norwood, Pa., $92,000. Architects, C. W. Brazer & A. B. Dickhut, Chester, Pa. Owners, School Board of Ridley Park Township, Pa. Brick, cut stone concrete and steel, 2 stories, 133x75 feet, slag roof, cement, oak, pine and maple floors, metal ceilings, dampproofing, hollow terra cotta tile, iron work, bond, metal lath (heating, lighting and plumbing reserved). Contract awarded to H. John Homan, 1703 Chestnut street, Philadelphia.

Bank and Office (alts. and add.), Stroudsburg, Pa. Architects, Edw. H. Davis & Geo. M. D. Lewis, Union Bank Building, Scranton, Po. Owners, Stroudsburg National Bank, care of architects. Brick, cut stone, limestone and steel, 2 stories, 95x25 feet, slag roof, cement and pine floors, metal ceilings, dampproofing, iron work, hollow metal sash and doors, metal lath, tile and marble work (heating, lighting and plumbing reserved). Contract awarded to Wills-Egelhof Co., 101 Park avenue, New York City.

Dunwoody Home, Newtown Square, Pa. Architect, Clarence Brozer, Crozer Building, Chester, Pa. Owners, Dunwoody Home, Newtown Square, Pa. Fireproof, 3 stories, 280x30 feet and 26x40 feet, Vermont slate roof, tile and hardwood floors, steam heat, electric light,

tile and terrazzo, hollow tile, metal lath, elevators. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Store and Office, Garrett and Ashby Road, Upper Darby, Pa., $40,000. Architect, private plans. Owner, Walter L. Borton, Fifty-sixth and Walton avenue, Philadelphia. Brick, stone and limestone or precastone, 2 stories, 50x115 feet, slag roof, cement and pine floors, hollow tile, metal ceilings, rolled steel skylights, marble and terrazzo, electric light, metal lath, hot water heat. Contract awarded to Curtis Grindrod Co., 20 South Eighteenth street.

Residence and Garage, Haverford, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Wm. J. Cooper, 4017 Baltimore avenue, Philadelphia. Stone, 2½ stories, 54x38 feet, and 1½ stories, 23x40 feet, slate roof, oak and pine floors, hot water heat, metal lath, tile, cement and iron work (lighting and hardware reserved). Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Residence, Rydal, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owner, John N. Frazier, Rydal, Pa. Hollow tile, stucco and steel, 2½ stories, 58x21 feet, wing 17x34 feet, shingle roof, oak and pine floors, metal lath, tile and marble, bond, iron work. Contract awarded to E. Allen Reeves, Inc., Abington, Pa.

Residence, Cynwyd, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Chas. L. Campbell, Cynwyd, Pa. Hollow tile and stucco, 2½ stories, 55x27 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile, marble and iron work. Contract awarded to Frank Shuler, Norristown, Pa.

Residence, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Fritz Quittner, Glenside, Pa. Brick, 2½ stories, 36x86 feet, slate roof, hardwood floors, vapor heat, electric lighting, tile and marble work. Contract awarded to A. Zellfelder, 151 South Broad street, Philadelphia.

Bungalow, Glenside, Pa. Architect, Robert C. Winter, 11 South Sixteenth street, Philadelphia. Owner, F. L. Reber, care of architect. Frame and stucco, 1½ stories, 32x36 feet, slate roof, pipeless heater, electric lighting, hardwood floors. Contract awarded to J. B. Steinhauer, Lemoyne, Pa.

Residence, Horsham, Pa. Architect, private plans. Owner, Mr. George Washington, Hatboro, Pa. Frame, 2 stories, 16x38 feet, shingle roof. Contract awarded to Roy Randall, Horsham, Pa.

Bungalow, Horsham, Pa. Architect, private plans. Owner, John Class, Jr., 3448 Keim St., Phila. Frame, 1 story, 22x24 feet, slate surfaced asphalt roof, North Carolina pine floors, pipeless heating. Contract awarded to Ray Randall, Horsham, Pa.

Building, Reading, Pa. Architect, Frederick A. Muhlenberg, Liberty Bank Building, Reading. Owner, Chantrell Hardware Co., Millmont, Reading, Pa. Brick, mill const., slag roof, concrete floors, electric light, steam heat, metal lath. Contract awarded to Beard Const. Co., 658 Penn Street, Reading, Pa.

Residence, (alts.) Bala, Pa. Architect, private plans. Owner, M. D. Long, Bala, Pa. Carpentry, millwork, painting, plumbing, plastering. Contract awarded to Turnbull & Cornell, 20 South Eighteenth street, Philadelphia.

Barn, (fire repairs) Malvern, Pa., $26,000. Architect, Jas. S. Tally, 18th and Chancellor streets, Philadelphia. Owner, Weightman Est., 1524 Chestnut street, Philadelphia. Carpentry, millwork, painting, plumbing, iron work, plastering. Contract awarded to Turnbull & Cornell, 20 S. 18th street, Philadelphia.

Community House, Trevose, Bucks Co., Pa. Architect, Otto G. Herold, Glenside, Pa. Owners, Trevose Improvement Association, Trevose, Pa. Stone and steel, 1 story, 87x43 feet, slate shingle roof, maple floors, metal lath, iron work, (heating, lighting and plumbing, reserved.) Contract awarded to Frank C. Hood, 1613 Chestnut street, Philadelphia.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa.

Armstrong Co., Route 69, North Buffalo and East Franklin Townships and West Kittanning Borough. $270,131.80. Contract awarded to Chas. Winter Const. Co., Renfrew, Pa.

Delaware Co., Route 225, Springfield and Nether Providence Townships. $86,979.14. Contract awarded to J. E. Brenneman Co., North American Building, Philadelphia.

New Jersey Construction News

Bridge Reinforcing, Woodbury, Depford and West Depford, Gloucester County, N. J. Engineer, Charles A. Meads, 790 Broad street, Newark, N. J. Owners, State Highway Commission, Broad Street Bank Building, Trenton, N. J. Owners taking bids due May 29th. Deposit of 10.00.

Bridge and Dam, Woodstown, N. J. Architect, H. B. Keasbey, County Engineer, Salem, N. J. Owners, Board of Chosen Freeholders, Salem County, Court House, Salem ,N. J. Reinforced concrete, 2 spans. Owners taking bids due June 12th.

Road Work, Cumberland County, N. J. Engineer, Walter M. Sharp, County Engineer, Bridgeton, N. J. Owners, Board of Chosen Freeholders, County of Cumberland, Bridgeton, N. J. Reinforced concrete. Owners taking bids due May 31st.

Residences (23), Caspian and Vermont avenues, Inlet, Atlantic City, N. J. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owners, Blumberg & Nedelman, care of architect. Hollow tile, stone and stucco, 2 stories, 15x44 feet, slag and wood shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking sub-bids.

Residence, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Stephen P. Brady, 119 Mervine street, Trenton, N. J. Frame, 1½ stories, 25x58 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect ready for bids.

Residence and Store, North Clinton street, Trenton, N. J. Owner, Bernard Cooper, 505 North Clinton street, Trenton, N. J. Brick, 2½ stories, 41x19 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work Owner will be ready for bids May 29th.

Armory, Mt. Holly, N. J., $25,000. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owners, State of New Jersey, Quartermaster's Department, Trenton, N. J. Brick, terra cotta, 1 story and basement, 74x 90 feet, tin roof, maple floors (heating, plumbing and electric work reserved), tile work. Department of Institutions and Agencies, Capitol Building, Trenton, N. J., will be ready for bids in one week.

Armory, Salem, N. J., $25,000. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, State of New Jersey, Quartermaster's Department, Trenton, N. J. Brick, terra cotta, 1 story and basement, 74x90 feet, tin roof, electric lighting, maple floors (heating, plumbing and electric work reserved), tile work. Department of Institutions and Agencies, Capitol Building, Trenton, N. J., will be ready for bids in one week.

World War Monument Building, Albany and Chelsea Parkway, Atlanctic City, N. J. Architects, Carrere & Hastings, Shreve, Lamb & Blake, 52 Vanderbilt avenue, New York City. Owners, Monument Commission, Board of Commissioners, City of Atlantic City, Atlantic City, N. J. Masonry, stone and concrete, piling, Monument, 36 feet diameter, 35 feet high, tile roof, bond. Owners taking bids, due May 25th.

Smith Memorial Parish House, Somerville, N. J. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, St. John's Parish, Somerville, N. J. Stone, 2½ stories, 108x47 feet, slate roof, pine floors, pipeless heater, electric light, metal lath, tile work, bond, iron work. Architect taking bids, due June 1st.

Church (alts.), Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Moorestown Presbyterian Church, Moorestown, N. J. General alterations. Architect taking revised bids, due June 10th.

New Jersey Contracts Awarded

State Hospital (add.), Trenton, N. J., $242,500. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of Warden Natchley, on premises. Brick and limestone, 2 stories, 186x167 feet, slate roof, pine floors, tile and marble work, rollod stel sash and skylights, fire and hollow metal doors, metal ceilings, terra cotta, iron work and stars (heating, lighting and plumbing separate bids). Contract awarded to Chas. J. Smith, 202 Academy street, Trenton, N. J.

Residence and Garage, Wittier and Belmont Circle, Trenton, N. J. Architect, J. O. Hunt, Hunt Building ,Trenton, N. J. Owner, W. C. Billman, 1321 W. State St., Trenton, N. J. Stone and stucco, 2½ stories, 82x34 feet, garage 1 story, 20x20 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble work. Contract awarded to E. S. Sutton, 1044 Greenwood avenue, Trenton, N. J.

Post Office (add.), Victoria and Atlantic avenues, Ventnor, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Ventnor Trust Co., care of architect. New front, cut stone, terrazzo floors, electric light, tile and marble work, ornamental iron work, vault. Contract awarded to Norman Gale, 22 North Troy avenue, Ventnor, N. J.

Bank (add.), Collingswood, N. J. Architect, P. H. Merz, Pennsylvania Building, Philadelphia. Owners, Collingswood National Bank, Collingswood, N. J. Limestone front, structural steel, carpentry, millwork, slag roof, metal lath, iron, tile and marble. Contract awarded to McNeill Valentine Co., 841 North Broad street, Philadelphia.

Church, Trenton, N. J. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, St. Paul's M. E. Church, Rev. L. Chamberlain, Trenton, N. J. Stone, 1 story, 61x103 feet, slate roof, steam heat, electric lighting. Contract awarded to S. W. Mather & Son, Trenton, N. J.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

Miscellaneous Construction News

Bank, 58 Bowery Place, New York, $350,000. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, Citizens' Saving Bank, care of architect. Cut stone, fireproof, 2 stories, 75x85 feet, stone and copper roof, marble and cork tile floors, steam heat, electric light, tile and marble work, hollow tile, metal lath, elevators, steel sash, roof ventilators, metal window guards, water and dampproofing (vault and bank equipment reserved). Architect taking bids, due June 15.

Auditorium, Winston-Salem, N. C., $400,000. Architect, Chas. Barton Keen, Bailey Building, Philadelphia. Owner, Mrs. J. Edw. Johnston, WinstonSalem, N. C. Brick, concrete, steel, hollow tile, 1 story, 100x200 feet, slag roof, electric light, iron work. Architect taking bids, due June 5th at 2 P. M.

Moving Picture Theatre, Middletown, Del. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, J. E. Lewis, Milford, Del. Brick and terra cotta, 1 story, balcony and mezzanine, slag roof, pine floors, fire door, ornamental iron work, tile work, metal lath. Plans in progress.

Miscellaneous Contracts Awarded

Restaurant (alts.), Fifth avenue and Ninth street, Brooklyn, N. Y., $30,000. Architects, Stuckert Co., Crozer Building, Philadelphia. Owners, Capitol Lunch System, on premises. General alterations, pine floors, hot water heat, electric lighting, tile and marble work, dumb waiters, cement work. Contract awarded to John Uhdal, 1357 Rogers avenue, Brooklyn, N. Y.

Apartment and Store, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, E. Coletta, care of architect. Brick, terra cotta, 3 stories, 85x25 feet, tile roof, hardwood floors, hot water heat, electric light, tile, marble and terrazzo work, hollow tile, roof ventilators, metal bulks, metal weatherstrips. Contract awarded to E. Disabatino & Sons, 415 Lincoln st., Wilmington, Del.

Apartment and Store (alts. and add.), Wilmington, Del. Architect, John McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Nathan Barsky, 904 West street, Wilmington, Del. Brick, plate glass, cut work, millwork, interior alterations. Contract awarded to J. A. Bader & Co., Lackey Building, Wilmington, Del.

Building (alts. and add.), Wilmington, Del. Owner, Max Keil, Ninth and French streets, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. General alterations. Brick, plate glass, millwork. Contract awarded to F. G. Krapf, 421 Orangestreet, Wilmington, Del.

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 15, 1922. Sealed Proosals will be opened in this office at 3 P. M., June 14, 1922, for the construction of new piers and dredging for the United States Quarantine Station at Rosebank, Staten Island, New York. Drawings and specifications may be obtained from the Supervising Chief Engineer, 731 Custom House Building, New York, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 328)

agriculture leaves 57 per cent. of all other workers employed in manufacture. Roughly speaking, about one-fourth of all persons engaged in manufacture may be said to qualify for the construction industry, as do likewise all the plants whose products go into construction solely.

Half Billion in Coal For Construction

The products of mines in the United States in 1920 have an estimated value of $4,400,000,000, and the wages approximated $1,000,000,000. Forty per cent. of bituminous and 19 per cent. of the anthracite coal is used in manufacture. Two-thirds of the remaining output of bituminous coal is used by the railroads and street railways, and approximately one-quarter of railroad coal is used hauling construction material. The consumption of $500,000,000 in coal is due to the construction industry.

Approximately 90 per cent. of all iron ore, copper and zinc, and 95 per cent. of lead production are consumed by construction, making in 1920 an additional credit to this industry of $750,000,000 for products.

Ot a total of approximately 14,000,000 workers employed by manufacturing, railroads and mines, nearly 12,000,000 are males. Of these, Government figures estimate approximately 8,500,000 are married. Assuming the average size family, given in the United States Census as 4.4 persons, and as one-quarter are classified as belonging to the construction industry, it appears that almost 11,000,000 persons, either as workers or as members of workers' families, derive their living through construction.

The support given to agriculture and trade by the annual expenditure of this great number of persons, which amounts to over five billion dollars, is too apparent to need discussion.

Wealth Produced by Construction

Construction is a pre-requisite to wealth accumulation and it is only by this means that the immense resources of this country are made available for every day use. The money necessary to extract and transport our natural resources and change them into such forms as reach the ultimate consumer must come from the general savings fund of the Nation. These in 1913 were $6,500,000,000; in 1918, $22,000,000,000; in 1920, $11,500,000,000.

Of that part of the Country's savings which goes into new capital, 50 per cent. or about $2,723,000,000, was used for construction in some form or other. The estimate is necessarily below the actual, as many activities are not reported, and therefore cannot be tabulated. Probably one-half of the national savings were absorbed by construction.

A report by the Senate Committee on Reconstruction and Production estimates that from 10 to 20 billion dollars are necessary to provide for structural facilities which would now be in use had there been no war, and of this amount five billions are needed for the building of homes. Thus, construction would seem to be the barometer of our industrial life. When depression strikes construction it rocks the entire industrial structure.

The builders who handle the final assembly of these materials, like ourselves, are like the keystone of the arch. On them depends a great responsibility to safeguard the interests of their industry as well as of the entire Nation, which depends upon them to so large an extent.

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

The only road to advancement is to do your work so well that you are always ahead of the demands of your position. Our employers do not decide whether we shall stay where we are or go on and up; we decide that matter ourselves. Success or failure is not chosen for us: we choose them for ourselves.—H. W. Mabie.

The "Builders' Guide" is in its thirty-seventh year of continuous publication.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....Builders' Exchange, Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
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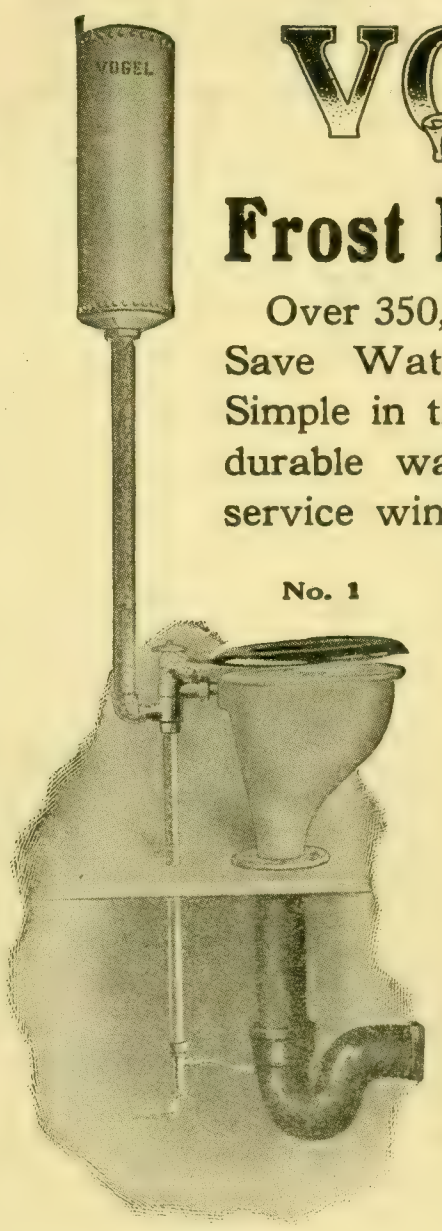
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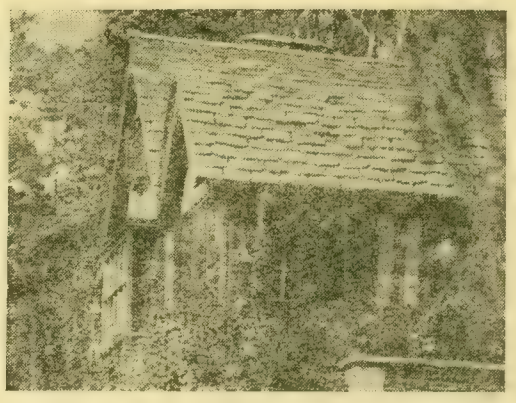
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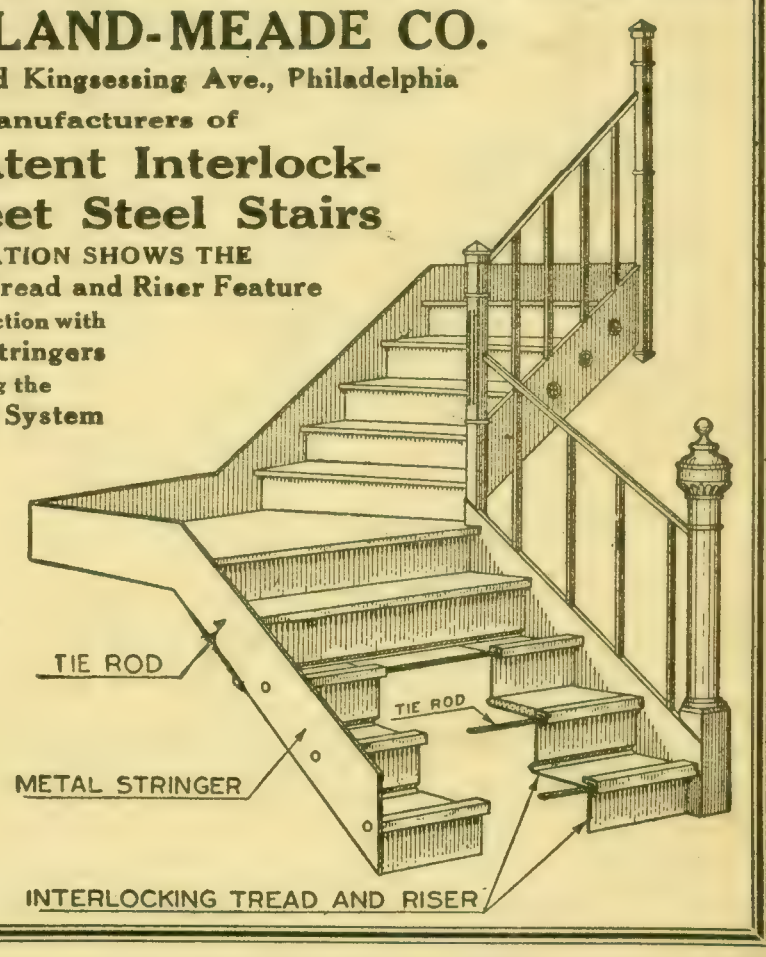


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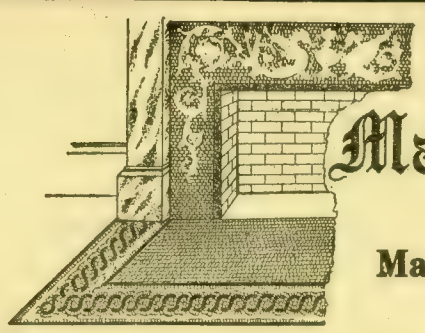
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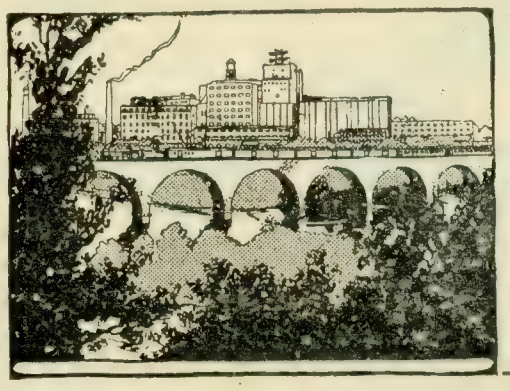
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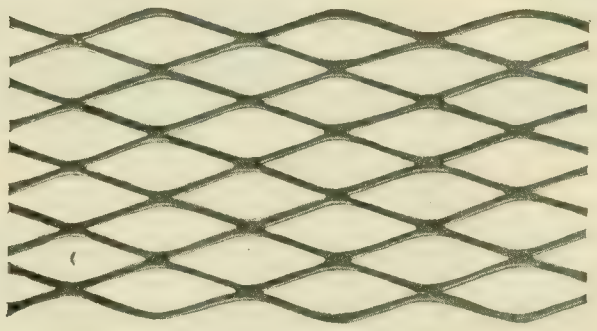
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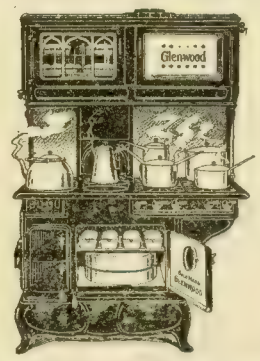
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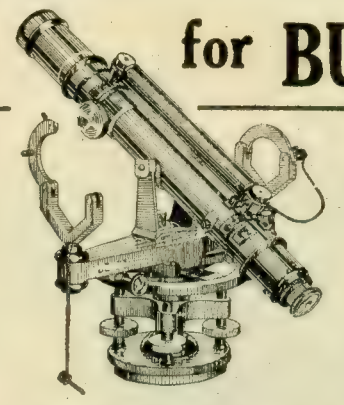
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VOLUME XXXVII
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As The Editor Sees It

BRICK BUILDINGS AND BRONZE TABLETS

AT a recent meeting of the Philadelphia Brick Manufacturers' Association held in conjunction with the Brick Manufacturers Association of Eastern Pennsylvania, Southern New Jersey and Delaware, with a large number of architects and other guests present, Mr. Carl A. Zeigler, nationally known architect, gave an intereting address on the subject of Early American Brickmaking.

Mr. Ziegler said:

"It is certainly most appropriate that the Brick Manufacturers' Association of Eastern Pennsylvania, Southern New Jersey and Delaware should meet in Phildelphia as there is no other city in the country that was so largely influenced by the use of brick construction in the Colonial days and no other city can exhibit so many excellent early examples of this type of architecture.

The late Dr. S. Wier Mitchell wrote his splendid book on "The Red City" with this in mind and Philadelphia was familiarly known as the brick city in the early days when it was the metropolis of the Colonies.

Unfortunately few Americans realize what a heritage they have in the old brick buildings of this country.

If you have ever made a pilgrimage in search of old Colonial brick buildings you have probably observed that the first fact the "oldest inhabitant" attempts to impress you with is that the "bricks were all brought from England."

Most of these imported bricks belong in the same category as the furniture which is reputed to have come over in the Mayflower; some came, of course, but it is appalling to think of what a fleet would have been necessary to bring over all that is said to have been imported, to say nothing of the expense. Ships were few and small and the demand for the very necessities of life was great. It is incredible, therefore, that any great quantity of brick could have been imported in those early days.

To test these oft-reiterated statements I have searched the early records and thought you might be interested to know just when bricks were first made in this country. The search has brought out many interestng facts and if our forefathers imported bricks from Europe up to the time of the Revolutionary War and after, as has been said, they were not the thrifty business men that we are accustomed to consider them.

The first brick kiln in New England was erected in Salem, Mass., in 1629. The minister at Salem during July of that year wrote "It is thought here is good clay to make Bricke and Tyles. At this instant we are setting up a brick kill to make bricke for the building of our houses."

Gawan Laurie of East New Jersey writes in 1684 "The poorer classes of houses are quite primitive in style, trees were split and set up with one end in the ground and the other nailed to the 'Rising.' They were covered with shingles and plastered within. Barns were built in the same way and the cost of these was about £5. Some use Pantiles in the Dutch manner. We have good brick earth and stone for building at Amboy and elsewhere. The country farm houses they build very cheaply, a carpenter with the Owner's own servants build the houses, they have all the material for nothing, save the nails."

The first dwellings erected by the Swedes in Pennsylvania and Delaware were very crude and chiefly of wood, one story in height with a single room with a low entrance door and crude windows that were merely openings in the walls, later to be covered with oiled paper in liu of glass. They were of the type common in Northern Europe for a century or two previous. On Timicum Island and Christiania Creek they built strong rude forts of hemlock and hickory logs. They built a brick house at Wicaco in 1700 which still stands. Better dwellings were erected by their successors and neighbors, the Dutch, who brought bricks from New Netherlands for the purpose. At New Amstel (New Castle), Delaware, bricks were made in 1656. (Wm. Penn landed in New Castle, Octo-

DRAWING MATERIALS

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BLUE PRINTS

ber 27th, 1682.)

Although the first English settlers in Pennsylvania were compelled to find lodging under the friendly trees and in caves or huts (John Key, the first child born of English parents in Philadelphia having been born in a cave in the bank near Race street) they were shortly in possession of substantial brick houses. One writer states "Far out Market Street at Center Square embosomed in the Forest was erected in 1684 the First Friends' Meeting House, a large plain brick building." The present City Hall now stands on this site at the intersection of Broad and Market Streets. William Penn's instruction to this agent in 1684 was to build principally of bricks "for which end I have sent a person qualified to make them."

Clay, sand and gravel were abundant within the city and fuel abounded on the banks of the Delaware and Schuylkill Rivers.

It is probable that some of the early houses, of which Philadelphia contained in 1684 over three hundred, were built of imported bricks, but Pastorius who founded Germantown in 1685 records that "they had a sufficient number of mills, brick-kilns, and tile ovens for all purposes." Four-fifths of the buildings in Philadelphia at the close of the Eighteenth Century were of brick and the city had at that early date a high reputation for the manufacturing of brick.

Christ Church on Second street, north of Market Street, was built in 1727, but there was a Church upon this site as early as 1695.

This church which was the most important church building in Philadelphia in the Colonial days is a splendid specimen of Colonial architecture and quite equal to any edifice that has been erected in Philadelphia up to the present day. Like all the important Churches within the city this structure is substantially built of brick in the old manner that creates such a distinctive atmosphere of refinement and restraint. There has been much debate among antiquaries as to whether the brick was imported from England or not. There are records in the archives of the Parish showing that bricks were delivered by "sailing vessel" to Philadelphia for the structure erected in 1685, but whether the vessel came from England or from another of the Colonies, or possibly from New Castle on the Delaware only a few miles below Philadelphia where brick was made in 1656, is not stated. The 1727 structure was erected under the direction of Dr. John Kearsley and although no plans are now in existence, drawings were no doubt prepared by him. In 1746 a competition seemed to have been held in order to secure a design for the spire (possibly the first architectural competition in America), in any event the Vestry decided in June, 1746, that "in erecting the spire the draft which Mr. Harrison drew should be followed."

St. Peter's Church on Pine Street between Third and Fourth Streets was started in 1758. Dr. John Kearsley (the same man who had in charge the building of Christ Church) and six others drew up a plan that was approved by the Vestry and the work was dedicated in 1761. Old St. Peter's with its grounds covering almost an entire city square, enclosed by a brick wall whose gateways have become a tradition in the architectural profession, stands as a monument to those sturdy straight thinking men to whose efforts we owe the "Red City" of Pennsylvania.

Gloria Dei commonly known as Old Swedes Church at Water and Christian Streets was erected in 1698. The selection of the site was long delayed by a disagreement. One faction wanted it built at Passayunk (now Point Breeze) while others wanted it erected at Wicaco, about half a mile below what was then the southern boundary of the city. Finally at a congregational meeting on May 17, 1698, the matter was settled by writing the names of both places on separate pieces of paper and placing them in a hat. After tossing them around they were thrown upon the floor and the one bearing the word Wicaco landing face upward, the matter was settled.

This is the earliest brick Church in Philadelphia and was built to replace the old block house built upon the site in 1665 in which the Swedes were accustomed to worship. Although smaller than Christ Church or St. Peter's it is a fine old example of Colonial architecture and quite Pre-Georgian in its style.

The most important early brick structure in Philadelphia is Independence Hall well named the "Cradle of Liberty." The events which occurred within its walls have stirred the imagination of the world. The large central building of this group was designed by Andrew Hamilton, a lawyer; the land was purchased in 1730 and Andrew Hamilton, Dr. John Kearsley and Thomas Lawrence were appointed to supervise the construction of the building. Many delays occurred and in October, 1736, when the Legislature sat in the east room on the first floor the windows were still unglazed. The tower was built in 1750, but the steeple was not erected until 1753.

Independence Hall has unfortunately undergone many changes and has been used for a variety of purposes. For a time it was rented to Charles Wilson Peale, the artist, and used by him as a museum. Later it was used by the City Councils.

The building was sadly neglected for many years and unfortunately when it was restored the Chamber in which the Declaration of Independence was signed was not restored to its original condition. The first floor of the building and the stair hall are pleasing in design, but it is nevertheless to be regretted that we are not able to visualize the interior of this historic building as it existed in 1776.

The westernmost building of the Independence Hall group known as "Congress Hall" was originally intended as the County Building. It was completed in 1789 and Congress first sat in it on December 6, 1790, when the National Capitol was removed from New York to Philadelphia. Congress occupied this building until May, 1800, when they removed to Washington, D. C. The building was restored by a Committee appointed by the Philadelphia Chapter A. I. A. in 1913 and has since been used as a permanent museum for the exhibition of antiquities of the Colonial Period.

The old Jail was located at Sixth and Walnut Streets, just in back of Congress Hall and convict labor was used in constructing the latter building. From the quaintly worded records we learn that human nature has not changed much since the early days, for the convict laborers were in the habit of lifting the iron ball and chain by which they were shackled and dropping same into the mud on the passing of some of the silk-stockinged gentry out on promenade, which fact seriously disturbed the city fathers and brought many threats of suit for damages.

At the eastern end of the group is the First City Hall, possessed by Philadelphia; it was built in 1790. Although ori-

(Continued on Page 356)



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Residences (18), South side Clifford street, West of Sixtieth street, and Southwest Corner, $82,000. Architect, private plans. Owner, L. W. Goodman, Drexel Hill, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 44 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

Factory (alts.), West side Ridge avenue, North of Calumet street, $4,000. Architect, private plans. Owners, Powers, Weightman & Rosengarten, Ninth and Parrish streets. General interior alterations. Owner will build.

Residence (alts.), 1317 South Fairhill street, Philadelphia, $2,000. Architect, private plans. Owner, Samuel Roger, on premises. General alterations. Owner will build.

Residence (alts.), Overbrook, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. H. Geist, Land Title Building, Philadelphia. Carpentry, mill work, oak and yellow pine floors, plumbing, hardware, painting, glazing, iron work. Architect taking bids due June 3rd.

Residences (5) and Garage, Greenway avenue and Fifty-second street. Architect, Mahlon H. Dickinson, 6151 Market street, Philadelphia. Owner, Mary Herkowitz, care of architect. Brick and cut stone, 2 stories, 41x41 feet, garage, 1 story, 90x98 feet, slag roof, North Carolina pine and cement floors, steam and hot water heat, electric light, tile work. Architect taking bids.

Residence (alts. and add.) and Garage, 5205 Wayne avenue, Germantown, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, Alexandr Tait, on premises. Brick and rough cast, 2 stories, 9x16 feet, metal roof, warm air heat, electric light, hardwood floors, plastering, painting, garage (6 cars), brick, 1 story, 55x22 feet, wing 20x15 feet, slag roof, cement floors, hot water heat, electric light. Owner taking bids.

Store Building (alts.), Northwest Corner Second and Poplar streets. Architect, Sol. Kaplan, 929 Chestnut street, Philadelphia. Owner, name withheld. General alterations, plumbing, steam heating, electric lighting, tile and marble work, hardwood floors, plate glass, metal bulks, metal ceilings. Ready for bids in one week.

Bakery (add.), 1034-38 South Fifty-seventh street, Philadelphia. Architect, Salvatore Griti, 817 North Sixteenth street, Philadelphia. Owner, Better Cake Co., J. G. Patton, on premises. Brick, 2 stories, 20x45 feet, slag roof, concrete floors. Owner will build.

Residence, Wissahickon avenue and Midvale avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, William R. Nicholson, Wissahickon and Midvale avenues, Philadelphia. Stone, 2½ stories ,30x46 feet, wing 15x15 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress.

Residences (3), Windrim avenue, near Louden street, Philadelphia. Architect, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, John E. Rafferty, 4128 North Broad street, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, hardwood and pine floors, hot water heat, electric lighting, tile work. Owner will be ready for sub-bids in two weeks.

Miscellaneous Work, Schools, various locations, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Electric work, plastering, plumbing, moving picture booth, cement pavements, brick pointing, painting, roofing, ventilators, wire screens, iron railing, terra cotta, heating repairs, boilers. Owners taking bids due June 8th.

Factory, Southwest Corner Tenth and Bainbridge streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayunk Brothers, Inc., Third and Spruce streets, Philadelphia. Brick, slow burning, 4 stories, 84x109 feet, slag roof, pine, composition and concrete floors, (1) elevator, rolling steel doors, rolled steel sash, electric light, steam heating, reinforced concrete work. Plans in progress. Architect will take bids in three weeks.

Residence (alts.), Germantown, location withheld. Architect, Robeson Lea Perot, 137 Harvey street, Germantown. Owner, name withheld. Carpentry, brick and stone work, plumbing, heating, tile work, roofing, plastering, painting, etc. Plans in progress.

Residence (alts.), location withheld, Philadelphia. Architect, Robeson Lea Perot, 137 Harvey street, Germantown. Owner, name withheld. General alterations, carpentry, brick and stone work, plumbing, heating, tile work, roofing, plastering, painting, etc. Plans in progress.

Junior High School, Gates, Fontain streets and Ridge avenue. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, granite and steel, 2 stories, 290x183 feet, composition and asphalt shingle roof, concrete, oak and mastic floors, safety treads, metal weather strips, waterproofing, dampproofing, terra cotta, iron work and stairs, bond, hollow metal doors, rolled steel skylights, metal lath, tile, marble and terrazzo. Owners taking bids due June 8th at noon.

Bank Building, Midvale and Ridge avenues, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, East Falls Bank, East Falls, Philadelphia. Brick, cut stone and granite, 1 story, basement and mezzanine, 110x27 feet, slag roof, cement and pine floors, hollow tile, roof ventilators, metal ceilings, waterproofing and dampproofing, iron work and stairs, bond, hollow metal doors, tile, marble and terrazzo, metal lath, steam heat, electric light. Architect taking bids due June 7th. (Vaults separate bids.)

Building, 1113 Walnut street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Benjamin S. Victor, 1115 Walnut street, Philadelphia. Brick, cut stone and granite, 3 stories, 133x21 feet, slag roof, pine and cement floors, steam heat, electric light, tile work, hollow metal doors, bond, iron work. Architect taking bids due June 3rd.

Stores and Residences (2), Residences (11), Wyncote and Stenton avenues, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Alexander Ferguson, 6622 Elmwood avenue, Philadelphia. Brick and stone, 2 stories, 17¾x32 feet, slag and slate roof, hardwood and pine floors, hot water heat, electric lighting, tile work. Owner will be ready for sub-bids in ten days.

Factory and Power House, Front and Olney avenue, Philadelphia. Engineers, William F. Newbery Co., Otis Building, Philadelphia. Owners, Heintz Mfg. Co., Leo. I. Heintz, president, 2120 West Tioga street, Philadelphia. Brick and steel, 1 story, 70x200 feet and 25x20 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, iron work. Engineers are taking sub-bids.

Residences (39), Oak Lane, Philadelphia. Architect, private plans. Owner, Albert Rosenbaum, 2204 North Marshall street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, garages in basement. Russell H. Foster, 6908 North Broad street, Philadelphia, will build.

Residence, 186 East Huntingdon street, and **Store (alts. and add.),** 2552 Kensington avenue, Philadelphia. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owner, Louis



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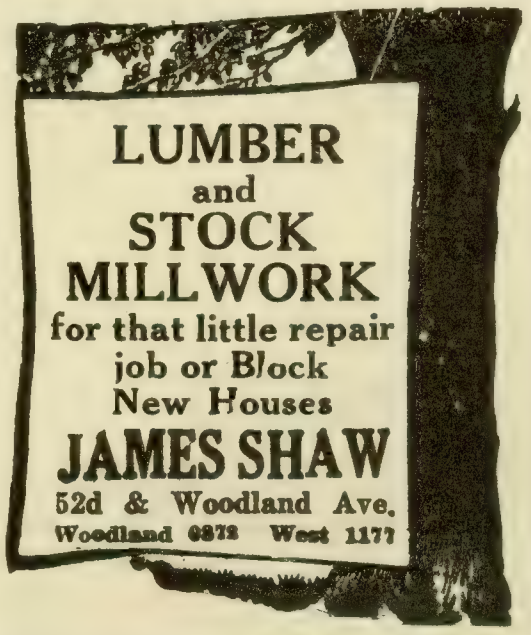
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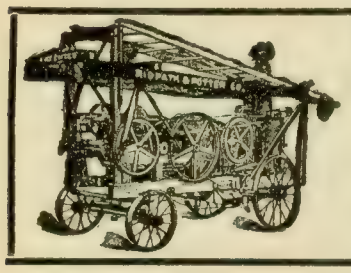
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Snyder, 2552 Kensington avenue, Philadelphia. Brick, 2 stories, 20x50 feet, slag roof, oak and pine floors, tile and marble work, iron work (heating, lighting and plumbing reserved), brick, 1 story rear add. to store, 10x20 feet. Architect taking bids on revised plans due June 7th.

Community Building, Northwest Corner Ninth and Pine streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Federation of Jewish Charities, 1512 Walnut street. Architect will be ready for bids in a few days.

Residence, Fifty-fourth and Overbrook avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Dr. Charles H. Tait, 5302 Lancaster avenue, Philadelphia. Stone, 3 stories, 68x34 feet, wings 23x17 feet and 15½x18 feet, slate roof, hot water heat, electric light, hardwood floors, tile work. John F. Wolff, 2334 West Thompson street, is taking sub-bids.

Store and Residence (alts. and add.), 1423 South Fifty-second street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, M. Nedleman, on premises. Brick, 1 story, 20x35 feet, slag roof, maple floors, hot water heat, electric light. Owner taking bids due as soon as possible.

Residence (alts. and add.), 717 South Fifty-second street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Miss Julia M. Turner, on premises. Changing to two apartments, hot water heat, electric lighting, hardwood floors, flush bulks, general interior alterations. Frank R. Shriver, Fifty-first and Catherine streets, is taking sub-bids.

Residences (3 pairs), Erringer Place, Germantown. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, George M. Randle, 1309 Locust street, Philadelphia. Brick (2) and hollow tile and stucco (4), 2½ stories, 16x47 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, cement work. Architect taking bids due June 5th at noon.

Garage, Green street and Queen Lane, Germantown. Architect, private plans. Owners, Osman & Holman, 121 West Wyoming avenue, Philadelphia. Brick and cut stone, 2 stories, 125x89 feet, slag roof, cement and pine floors, (1) elevator, peele doors, hollow metal skylights, rolled steel sash, metal lath, electric light, steam heat, iron work. Owner taking bids.

Miscellaneous Supplies, Bureau of Water, Philadelphia. Owners, Department of Public Works, Bureau of Water, Frank H. Caven, Director, 216 City Hall, Philadelphia. Contract 588, 300 patent sleeves and stop valves. Contract 589, furnishing and installing pumping units Lardner's Point Pumping Station. Contract 590, building, structural steel, reinforcing steel, cast iron pipes and fittings, coal and ash handling apparatus. Contract 591, exhaust valve springs, Lardner's Point Pumping Station. Contract 592, furnishing filter sand at Queen Lane Filters. Contract 593, furnishing and delivering sluice gates, Queen Lane Pumping Station. Contract 594, engine and boiler room accessories (6 air compressors, (2) stoker engines, (3) steam turbine governors, (17) boiler feed regulators, (1) steam jet air pump, (1) turbine driven boiler steam pump, (4) motor driven sump pumps). Contract 595, patent connections at Roxborough, Lardner's Point and Parkside Avenue. Cont. 596, motorized valve operating device. Owners taking bids due June 8th at noon. Inquire Room 796.

Maternity Hospital (alts.), Thirty-fourth and Pine sts., Philadelpria. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Health, Bureau of Charities, City Hall. Dem., masonry, mill work, plastering, composition, cork tile floors, painting, glazing, hardware. Lowest bidders: E. C. Durell, 1713 North Twenty-fourth street, $6,370; F. A. Havens Co., 845 North Nineteenth street, $6,550; Bullman Brothers, Fifth and Cumberland streets, heating, $746; Bullman Brothers, Fifth and Cumberland streets, plumbing, $1,166. J. F. Buchanan Co., 1719 Chestnut street, electric, $977.

Shelter and Wading Pool, Nineteenth and Wiley streets, Francis and Shirley. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Works, Bureau of Recreation, 216 City Hall, Philadelphia. Concrete, 69x33 feet, shelter surrounding pool, shingle asbestos roof, concrete floors, waterproof, iron work, bond. Lowest bidders: Mitchell Brothers, 2125 Race street, Philadelphia, $8,647, 8,847; excav., $3; concrete, $20; fill, $1. George Dobbins, 1020 South Forty-seventh street, $8,900, $9,200; excav., $2; concrete, $15; fill, 50 cents. Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, $8,974, $8,814; excav., $1; concrete, $14; fill, $1.

Residences (15), 2002-30 North Sixty-sixth avenue, Philadelphia, $61,000. Architect, private plans. Owner, Thomas J. Kelly, 2604 North Thirty-third street, Philadelphia. Brick, 2 stories, 15x28 feet, 12x11 feet, slag roof, hot water heat, electric light. Owner will build.

Garage, North side Florence avenue, West of Fifty-third street, $34,000. Architect, private plans. Owners, Philadelphia Realty Co., 111 West Mt. Airy avenue, Philadelphia. Brick, 1 story, 102x150 feet, slag roof, cement floors, steam heating, electric lighting, cement floors. Owner will build.

Residences (6) (2) South side Millett street, West of Ditman street, and (4) East side Jackson street, North of Millett, $4,000 each. Architect, private plans. Owner, W. W. Anstine, 1218 Filbert street, Philadelphia. Frame, (2) 1 story, 24x38 feet, 10½x6½ feet, and (4) 1 and 2 stories, 14x36 feet, 14x6 feet, shingle roof, hot water heat, electric light. Owner will build.

Factory, West side Twenty-eighth, South of Ritner street, $10,000. Architect, private plans. Owner, William R. Chapman, Jr., Medical Arts Building, Philadelphia. Straub block, 1 story, 94x96 feet, slag roof, maple floors. Owner will build.

Residences (2), 1029-31 Hillerman street, $4,000 each. Architect, private plans. Owners, Rose Building Co., 2616 Bridge street, Philadelphia. Brick, 2 stories, 18x40 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (7), 4915-27 York road, Philadelphia, $72,000. Architect, private plans. Owners, M. Kirschner, 4930 Brown street, Philadelphia. Brick, 3 stories, 16x60 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residences (9), Fifty-sixth and Greenway

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avenue, and (1) Gray's Lane and Woodland avenue, $55,000. Architect, private plans. Owner, William S. Tamens, 5213 Chestnut street, Philadelphia. Brick, 2 stories, 16x32 feet, 16x50 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Residences and Stores (42), 7100-42 Torresdale avenue, $8,000 each. **Residences and Store**, Northwest Corner Princeton and Torresdale, $9,000. Architect, private plans. Owner, James W. Orr, Bustleton and Knorr streets, Philadelphia. Brick, 2 stories, 18x36 feet, and 3 stories, 16x26 fet, 13x34 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Owner will build.

Residences, McCallum street and Glen Echo road, $18,000. Architect, private plans. Owner, Don Peters, 515 Pelham road, Philadelphia. Brick, 3 stories, 28x40 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Residence, East side Lawnton, West of Medary avenue, $9,000. Architect, private plans. Owner, Gilbert S. Smith, 1715 Chestnut street, Philadelphia. Brick, 2 stories, 25x31 feet, slag roof, yellow pine and oak floors, hot water heat, electric light. Owner will build.

Building (alts.), East side Beach street, South of Palmer street, $8,000. Architect, private plans. Owners, Philadelphia Electric Co., Tenth and Chestnut streets. General alterations. Owners will build.

Garage, East side Forty-fourth street, South of Spruce street, $8,000. Architct, private plans. Owner, H. B. Nichols, Forty-fifth and Spruce streets, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric work. Owner will build.

Residence, Northwest Corner Twelfth and Berks streets, Philadelphia, $8,000; also **Garage**, $2,000. Architect, private plans. Owner, M. Orlovitz, 1904 North Twelfth street, Philadelphia. Brick, 2 stories, 19½x56 feet, garage, 1 story, 22x47 feet, slag roof, oak, yellow pine and cement floors, hot water heating. Owner will build.

Residences (4), North side Fairthorne street, East of Mathias, $4,000 each. Architect, private plans. Owners, G. L. & J. K. Callahan, 542 East Fairthorne street. Brick, 2 stories, 16 feet 4 inches x 53 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (2), 1123-25 Cottman street, Philadelphia, $6,000 each. Architect, private plans. Owner, Elmer V. Phillips, 7202 Oxford avenue, Philadelphia. Frame, 2 stories, 16x40 feet, and 2 stories, 21½x48½ feet, hot water heat, electric light, oak and yellow pine floors. Owner will build.

Residences (3), South side Kalos street, West of Manayunk avenue, $3,500 each. Architect, private plans. Owner, Walter Smith, 5273 Ridge avenue, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hot water heating. Owner will build.

Residences (2), Northeast and Southeast Corners Fifty-seventh and Pentridge streets, $5,000 each. Architect, private plans. Owners, R. D. & J. M. Wilson, 5023 Woodland avenue, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, oak and yellow pine floors, hot water heating. Owner will build.

Residence and Store (add.), 5320 Marker street, $5,000. Architect, private plans. Owners, Javian Brothers, 4850 Lancaster avenue, Philadelphia. Brick, 2 stories, 20x22 feet, 16x12 feet, slag roof, yellow pine floors, electric lighting. Owner will build.

Residence, East side Torresdale avenue, South of Knorr, $4,500. Architect, private plans. Owner, B. Nason, Torresdale avenue and Longshore street, Philadelphia. Brick, 2 stories, 26 feet 10 inches x 30 feet, slag roof, hot water heating. Owner will build.

Residences (21), West side D street, South of Ruscomb street, $4,000 each. Architect, private plans. Owner, C. Kiely, 312 West Seymour street, Philadelphia. Brick, 2 stories, 15x27 feet, 12x10 feet and 16x38 feet, slag roof, hot water heating. Owner will build.

Residences (14), North side Ford road, East of Monument avenue, $6,000 each. Architect, private plans. Owner, Michael Rock, Jr., 3148 North Broad street, Philadelphia. Brick, 2 stories, 16x55 feet, oak and yellow pine floors, hot water heat, electric light. Owner will build.

Stores (2), 5056 Germantown avenue, Philadelphia, $3,500. Architect, private plans. Owner, Mrs. John J. Gallagher, 5060 Germantown avenue. Brick, 1 story, 11x33 feet, slag roof, yellow pine floors. Owner will build.

Residence, South side Heyman street, East of Pierson, $2,500. Architect, private plans. Owner, Frank Weiss, 3576 Stouton street, Philadelphia. Brick, 2 stories, 28x44 feet, slag roof, yellow pine floors, hot water heat. Owner will build.

Building (add.), 3146 North Seventeenth street, $2,000. Architect, private plans. Owners, H. S. & B. W. Cochran Corporation, on premises. Iron, second story add., 17x12 feet, galvanized iron roof. Owners will build.

Shop (add.), 1523 North Randolph street, $2,000. Architect, private plans. Owner, B. Rochlis, 1518 North Fifth street, Philadelphia. Brick, second story add., 27x40 feet, slag roof, yellow pine floors. Owner will build.

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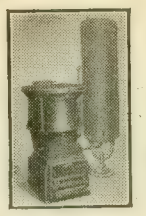
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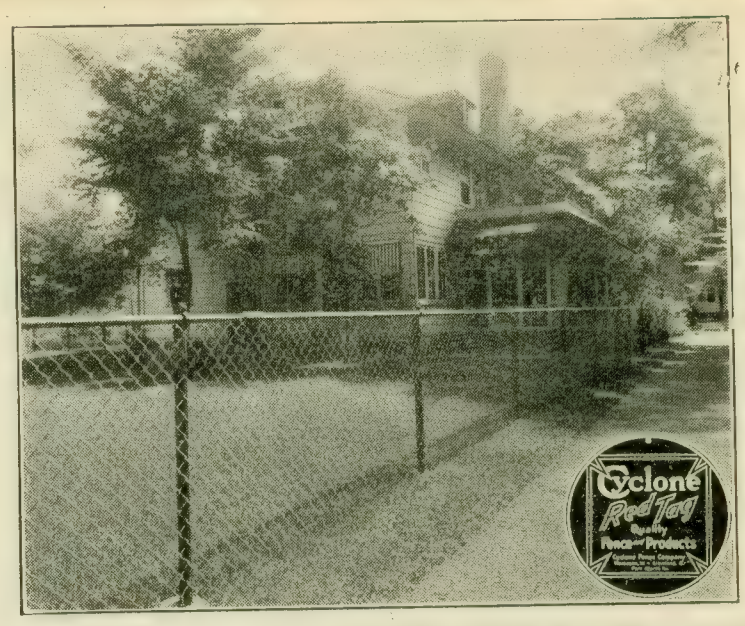
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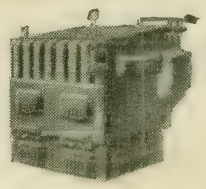
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Federal Sub-Station, Southeast Corner Sixth and Federal streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Brick, cut stone, steel, 2 stories, 114x66 feet, slag roof, steam heat, concrete floors, marble work, waterproofing, terra cotta, Bond. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia, $60,000.

Residence, Lincoln Drive and Emlen street, Philadelphia, $17,000. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Mrs. M. L. Taylor, care of architect. Brick, 2½ stories, 28x35 feet, shingle roof, oak and pine floors, iron work, tile work, electric light, hot water heat. Contract awarded to Triangle Const. Co., 44 East Armat street.

Residence, West Laurel Hill Cemetery, Philadelphia. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, West Laurel Hill Cemetery, Philadelphia. Hollow tile and stucco, 2½ stories. Contract awarded to Milton W. Young, Overbrook, Pa.

Hospital, Clifton, Sansom and Moravian streets, Philadelphia, $1,500,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Jefferson Medical College, Dr. H. K. Mohler, Tenth and Walnut streets, Philadelphia. Brick, stone, steel and concrete, fireproof construction, 14 stories, 80x115 feet, steam heat, electric lighting, tile and marble work, hollow metal doors, elevators. Contract awarded to Stone & Webster, Boston, Mass.

Manufactory and Pump House, Margaret and James streets, Philadelphia, $200,000. Architects, Ballinger & Co., Twelfth and Chestnut streets, Philadelphia. Owners, Blumenthal Brothers, on premises. Concrete, brick and terra cotta and steel, 3 stories, 273x82 feet, and 1 story, 31x15 feet, slag roof, concrete and composition floors, hollow tile, metal lath, safety treads, waterproofing and dampproofing, terra cotta, iron work and stairs, bond, fire and kalamein doors, rolled steel sash, tile and marble work (heating, lighting, plumbing and elevators reserved). Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Machine Shop, Pike street and Frankford avenue, Philadelphia, $69,300. Architect, private plans. Owners, Fidelity Machine Co., 4015 Paul street, Philadelphia. Brick, slow burning construction, 1 story and basement, 86x160 feet, and 2 stories, 40x86 feet, asbestos built-up roof, concrete, maple and plank floors, sawtooth roof (steam heat, electric light, sprinklers and elevators separate bids). Contract awarded to A. W. Shirreff, 608 Chestnut street.

Office (add.) and Warehouse, Delaware avenue, btween Van Kirk street and Dark Run Lane, Wissinoming, Pa., $50,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, National Ammonia Co. of Penna., on premises. Brick, cut stone and steel, 1 story, 50x35 feet, and 1 story, 234x48 feet, slag roof, cement and maple floors, metal weather strips, terra cotta, iron work, bond, rolled steel sash, metal lath, tile work (heating, lighting and plumbing reserved). Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Garage and Office, 1520 North Stillman street, Philadelphia, $55,000. Architect, private plans. Owners, Supplee-Wills-Jones, Twenty-sixth and Jefferson streets. Reinforced concrete, brick and steel, 2 stories, 80x90 feet, slag roof, cement, cork and maple floors, roof ventilators, iron work, rolled steel sash and skylights. Contract awarded to George Kessler Cont. Co., Drexel Building.

Building, 1525 Walnut street, Philadelphia, $20,000. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1424 South Penn Square. Brick, cut stone and granite, 2 stories, 118x20 feet, slag roof, pine floors, metal lath, iron work, bond, tile, steam heat. Contract awarded to John Schnabel, Inc., Denckla Building.

Garage (alts. and add.), 430 Allen Lane, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Francis Bracken, on premises. Stone, 2½ stories, 16x23 feet, shingle roof, cement work. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy, Philadelphia.

Locker House and Residence, Coulter street, Germantown. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Germantown Friends' School, on premises. Hollow tile, stucco, brick and cut stone, 2½ stories, 66x26 feet, shingle roof, pine floors, hollow tile, waterproofing, iron work, bond, metal lath, hot water heating, electric lighting. Contract awarded to F. Elvidge & Son, 5522 Germantown avenue.

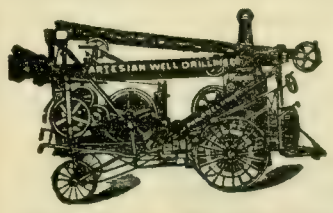
Building (alts. and add.), 605 Chestnut street, Philadelphia. Architects, Bissell & Sinkler, Otis Building, Philadelphi. Owners, United Security Life Insurance Co., on premises. Carpentry, mill work, brick work, cement work, plastering, painting, glazing, roof repairs, plumbing, metal lath, bond, iron and steel work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Mill Building, Mulberry street, near Wakeling street, Philadelphia. Architect, Edwin F. Bertolette, 721 Walnut street, Philadelphia. Owner, Allen Locke, 4949 Mulberry street, Philadelphia. Brick and steel, 2 stories, 48x32 feet, slag roof, maple and concrete floors, rolled steel sash, bond, iron work. Contract awarded to George Good, Adams road, near Mascher street.

Residence, Arrott and Pilling streets, Philadelphia, $12,000. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Robert Lawson, 4665 Paul street, Philadelphia. Brick and stucco, 2½ stories, 20x40 feet, slate roof, hot water heat, electric lighting, tile work. Contract awarded to Rush Brothers, 1016 Harrison street.

Residence, Wissahickon avenue and Coulter street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, William R. Nicholson, Jr., Wissahickon and Midvale avenues. Stone, 3 stories,

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28x106 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile and marble work. Contract awarded to H. H. Brocklehurst, 512 West Norris street.

Residence and Garage, Oak Lane, Philadelphia. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Mrs. C. H. Lentz, care of architect. Stone, 2½ stories, 40x45 feet, and 1 story, 23x20 feet, slate roof, hardwood floors, vapor heat, electric light, tile work, cement work. Contract awarded to McNeill Valentine Co., 841 North Broad street.

Office Building (add.), Twenty-ninth and Gray's Ferry road, Philadelphia. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, Henry Bower Chemical Mfg. Co., on premises. Brick, cut stone and steel, 2 stories, 37x45 feet, asbestos built-up roof, pine floors, metal lath, bond, iron work. Contract awarded to H. John Homan, 1703 Chestnut street.

Residence, Overbrook, Philadelphia. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Stone and stucco, 2½ stories, slate roof, hardwood floors, tile and marble work, electric lighting. Contract awarded to Leroy K. Smith, Forty-first and Chester avenue.

Residence, Oak Lane, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Ralph K. Meyerhoff, care of architects. Stone, 2½ stories, 40x30 feet, slate roof, oak and pine floors, hot water heat, electric light, iron work. Contract awarded to Frank C. Hood, 1613 Chestnut street.

Building (alts.), 1821 Walnut street, Philadelphia. Architect, private plans. Owners, Barrie's Sons, 1313 Walnut street, Philadelphia. Brick, 3 stories, 22x106 feet, slag roof, pine floors, elevators, painting, glazing, bond, iron work, electric. Contract awarded to F. B. Davis, Inc., 240 North Sixteenth street.

Residence (alts. and add.), Overbrook, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Fred R. Rakestraw, Overbrook, Piiladelphia. Stone, 2½ stories, 24x20 feet, slate roof, oak and pine flors, heating extension, electric lighting, metal lath, iron work. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Power House (add.), East side Beach street, South of Palmer, $75,000. Architect, private plans. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Brick, 5 stories, 31x46 feet, slag roof, cement floors. Contract awarded to Stone, Webster Co., Boston, Mass.

Residences (44), Bonsall and McKean streets, $3,000 each; **Residences and Stores (4)**, McKean and Bonsall and Sydenham and Bonsall, $3,200 each. Brick, 2 stories, 16x26 feet, 13x8 feet and 17x40 feet, slag roof, hot water heat, electric light. Architect, private plans. Owner, Charles A. Young, 1914 Point Breeze avenue. Contract awarded to Charles A. Dillan, 1300 Ritner street.

Store, Southeast Corner Frankford avenue and Wakeling street, $20,000. Architect, private plans. Owner, William H. Yellin, 1350 Harrison street, Philadelphia. Brick, 2 stories, 30x90 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to C. C. Carn, 1634 Dyre street, Philadelphia.

Shop, West side Third street, South of Cayuga street, $16,000. Architect, private plans. Owner, Otto Hoffman, on premises. Brick, 1 story, 60x120 feet, slag roof, electric lighting. Contract awarded to Otto Malz & Son, 2002 North Fourth street.

Residence, West side Sixth street, South of Sixty-fourth avenue, $13,000. Architect, pri-

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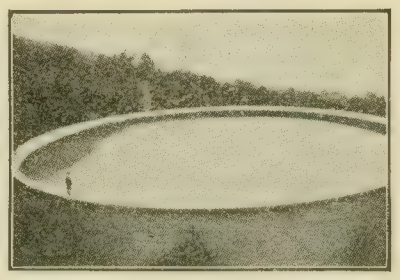
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vate plans. Owner, A. Dexter, 642 Fairhill street, Philadelphia. Brick, 3 stories, 30x45 feet, 6x13 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to M. Stevens, 916 St. Vincent street.

Warehouse, 1212-14 Bainbridge street, $12,000. Architect, private plans. Owner, William Zukeman, 1216 Bainbridge street, Philadelphia. Brick and steel, 3 stories, 34x100 feet, slag roof, cement floors, electric light, steel sash. Contract awarded to A. P. Lucker, 5136 Parkside avenue.

Residence and Garage, Olney avenue, West of Lawrence, $9,500. Architect, private plans. Owner, George Deppirto, Northwest Corner Fourth and Olney avenue. Brick, 3 stories, 17x55 feet, garage, 1 story, 32x18 feet, slag roof, oak and pine floors, hot water heat, cement work. Contract awarded to Louis Braennig, 4933 North Fifth street.

Store (repairs), 4007-09 Market street, Philadelphia, $4,000. Architect, private plans. Owner, T. McCaffery, 14 South Fifty-first street, Philadelphia. General fire repairs. Contract awarded to Felix Claro, 5313 Malcolm street, Philadelphia.

Store and Storage Building, 3502 South Broad street, $3,000. Architect, private plans. Owner, William Zinger, 2645 South Fifteenth street, Philadelphia. Brick, 2 stories, 18x40 feet, slag roof, electric work. Contract awarded to Michael Di Mosi, 1000 Oregon avenue.

Building (repairs), 416 Fitzwater street, $3,000. Architect, private plans. Owner, Jacob Frank, 418 Fitzwater street, Philadelphia. General fire repairs. Contract awarded to B. Shestack & Co., 5829 Walnut street.

Residence (add.), 807 South Tenth street, $2,000. Owner, Igeno Cologne, on premises. Brick, second and third story add., 12x12 feet and 15x25 feet. Contract awarded to W. Nardy, 3522 Filbert street.

Garage (add.), Northeast Corner Thirty-ninth and Ludlow streets, $11,000. Architect, private plans. Owner, Daniel Dever, 1636 Market street, Philadelphia. Brick, 1 story, irregular size, slag roof, electric light, cement floors, hot water heat, steel sash. Contract awarded to John Welsh, Seventeenth and Race streets, Philadelphia.

Garages (2), 5016 Pentridge street, Philadelphia, 11,000. Architect, private plans. Owner, Roy Cross, on premises. Brick, 1 story, 36x18 feet, 19½x120 feet, slag roof, hot water heat, electric light, cement floors. Contract awarded to Seeds & Steinmetz, 551 South Yewdall street.

Residence (add. and alts.), 5401 Christian street, $8,500. Architect, private plans. Owner, Charles O'Brien, on premises. Brick, 3 stories, 20x8 feet, 20x25 feet, slag roof, yellow pine floors, hot water heat, electric light. Contract awarded to Daniel F. Wholey, 1109 West Indiana avenue.

Store (alts. and add.), 1527 Columbia avenue, $6,400. Architect, private plans. Owner, Francis Jacobs, on premises. Brick, 1 story, 12x14 feet, 3x16 feet 4 inches, slag roof, tile and composition floors, hot water heat, electric light. Contract awarded to Charles H. Shuster, 1950 North Watts street.

Residence (add.), 2035 Cypress street, Philadelphia, $4,800. Architect, William G. Pritchett, 416 Walnut street, Philadelphia. Owner, Miss Evelyn Murphy, on premises. Brick, second and third story adds., 16x16 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Building (add.), 215 South Eleventh street, Philadelphia, $4,000. Architect, private plans. Owners, Kensil & Son, on premises. Brick, 3 stories, 15x23 feet, slag roof, yellow pine floors. Contract awarded to D. A. McClelland Co., Drexel Building.

Boiler House, Tasker street, East of Delaware avenue. Owner, McCahan Sugar Refining Co., on premises. Brick, 1 story, 61x50 feet, slag roof, cement floors. Contract awarded to O'Meara Const. Co., 228 South Warnock street.

Residences (2), East side Claridge street, South of Cottman, $4,000 each. Architect, private plans. Owner, Lena Perlman, 1225 Cottman street, Philadelphia. Brick, 2 stories, 14½x56 feet, slag roof, electric light. Contract awarded to Henry Perlman, 1225 Cottman street.

Residence (add.), 1014 Carpenter street, Philadelphia, $2,950. Architect, private plans. Owner, N. Rossano, on premises. Brick, 2 stories, 12x34 feet, slag roof, yellow pine floors. Contract awarded to Dom Buro, 1409 South Eighth street, Philadelphia.

Residence (alts. and add.), 1242 North Twenty-ninth street, Philadelphia, $2,000. Architect, private plans. Owner, Charles Bechtle, corner Twenty-seventh and Girard avenue, Philadelphia. Brick, 1 story, 8x12 feet, yellow pine floors, slag roof. Contract awarded to Herman Geithner, 1322 North Twenty-eighth street.

Residence and Store (alts.), 1301 Wolf street, Philadelphia, $2,000. Architect, private plans. Owner, N. D. Taggese, Northeast Corner Nineteenth and Moore streets, Philadelphia. General interior alterations. Contract awarded to Philip Pinto, 1319 Tasker street, Philadelphia.

Store and Residence (alts.), 4169 Lancaster avenue, $3,400. Architect, private plans. Owner, H. S. Kaestner, 4227 Lancaster avenue, Philadelphia. General interior alterations. Contract awarded to Leonard Will, 651 North Frazier street.

Store (alts.), 1026 Arch street, Philadelphia, $3,000. Architect, private plans. Owners, Philadelphia Gas Range Co., 1026 Arch street, Philadelphia. General alterations. Contract awarded to Frank G. English & Son, 1608 North Carlisle street.

Residence and Store (alts. and add.), 160 North Sixtieth street, $2,600. Architect, private plans. Owner, Henry Holtzer, on premises. Brick, 1 story, 12x15 feet, slag roof, yellow pine floors, electric work. Contract awarded to Robert M. Milne, 5318 Addison street.

Manufacturing Building (add.), East side Third street, North of Cumberland street, Philadelphia, **$25,000. Architect**, private plans. Owners, Columbia Carpet Mills, Third and Huntingdon streets. Brick, fifth story add., 40x114x146½ feet, slag roof, maple floors, steam heat, electric light, steel sash. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Residence and Garage, West side Roosevelt Boulevard, North of Knorr street, $15,000. Architect, private plans. Owner, Harry J. Kolb, 3163 Kensington avenue, Philadelphia. Stone, 3 stories, 26x41 feet, garage, 1 story, 20x22 feet, slate roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to James W. Orr, Bustleton and Knorr streets, Philadelphia.

Residence, South side Summit avenue, East of Ridge avenue, $5,000. Architect, private plans. Owner, Rose Jordan, Leverington avenue, Philadelphia. Frame, 1 story, 26x37½ feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to George M. Robinson, 632 Summit avenue.

Storage Building, West side Seventeenth street, North of Clearfield, $5,000. Architect, private plans. Owners, H. B. & B. W. Cochran Co., Seventeenth and Allegheny avenue. Brick, 1 story, 30x72 feet (enclosing storage shed). Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Residence (alts.), 1951 Locust street, Philadelphia, $4,000. Architect, private plans. Owner, P. F. Kernan, Penfield Building, Philadelphia. General interior alterations. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

Residence and Store (add.), 4944 Wayne avenue, Philadelphia, $4,000. Architect, private plans. Owner, Mrs. L. Landenslager, on premises. Brick, 3 stories, 9x13 feet, electric work. Contract awarded to T. S. Fetter, 1829 Filbert street.

Residence (add.), Northeast Corner Master and Peach streets, $2,500. Architect, private plans. Owner, Dr. G. Mason Astley, on premises. Brick, second story add., 9x28 feet, slag roof, electric lighting. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

Residence and Store (add. and alts.), 4536 Mitchell street, $2,000. Architect, private plans. Owner, Charles Trapold, on premises. Brick, 1 story add., 11 feet 4 inches x 7 feet 8 inches, slag roof, yellow pine floors. Contract awarded to C. C. Eddelman, 1627 Sansom street, Philadelphia.

Garage, 1010-12 West Venango street, Philadelphia, $21,000. Architect, private plans. Owner, John Gerlash, Northeast Corner Rockland and Hutchinson streets. Brick, 1 story, 40x90 feet, steam heat, electric light, cement floors ,slag roof, roof ventilators. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street.

Residence and Store (add. and alts.), 5912 Germantown avenue, $7,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, J. Resnick, 2812 Kensington avenue, Philadelphia. Brick, 2 stories, 14x70 feet, slag roof, yellow pine floors, metal ceilings, electric work. Contract awarded to Joseph Cichiny, 10 South Eighteenth street, Philadelphia.

Building (alts. and add.), Northeast Corner Fifth and Rockland streets, $5,000. Architect, private plans. Owner, Thomas Patterson, Fifth and Rockland streets, Philadelphia. Brick, 2 stories, 15x14 feet, slag roof, yellow pine floors. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

Residences (10), West side Manayunk avenue, South of Rector, $3,000 each. Architect, private plans. Owner, William Tippett, Manayunk and Pennsdale avenues. Brick, 2 stories, 20x30 feet, slag roof, electric work. Contract awarded to C .M. Swartley & Son, 6835 Ridge avenue.

Warehouse (alts.), 3041-43 North Eleventh street, $2,500. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Joseph T. Brown, on premises. General interior alterations. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

"Camouflage" doesn't pay in advertising. Don't call your cannon a bit of landscape. Be honest and gain the confidence of the public.

PENNSYLVANIA Construction News

Hospital (add.), Scranton, Pa., $250,000. Architect, J. J. Howley, Trades Bank Building, Scranton, Pa. Owners, Mother Superior, Mercy Convent, Wilkes-Barre. Brick, fireproof, steel, 5 stories, 40x140 feet, 140x116 feet, tile and maple floors, electric light, tile and marble work, (2) elevators, roof ventilators, metal window guards, skylights, iron work. Lowest bidder: Beilman & Son, 220 Ash street, Scranton, Pa.

Reception Building, Allentown, Pa. Architect, private plans. Owners, Homeopathic State Hospital, Allentown, Pa., Dr. Henry I. Klopp, superintendent. Owners, care of Wallace Royer, taking bids due June 14th.

Store and Apartment, South Main street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, care of architect. Brick, 2 stories, 40x150 feet, built-up roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

School (add.), Shabertown, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, care of architects. Frame, 2 stories, 4 rooms, shingle roof, yellow pine floors (heating, plumbing and electric work reserved). Plans in progress.

Store and Apartment, Scranton, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton. Owner, care of architect. Frame, 2 stories, 23x54 feet, shingle roof, hardwood floors, steam heat, electric light, tile work, plate glass. Plans in progress.

Drill Shed, Carbondale, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owners, Carbondale Armory, care of B. F. Denning, Capitol Building, Harrisburg, Pa. Brick, steel, 2 stories, 62x82 feet, slag roof, hardwood floors, metal lath, electric light, steel sash. Revised plans in progress.

Store and Office, Adams street, Scranton, Pa. Architects, Edward H. Davis and George M. D. Lewis, Union Bank Building, Scranton, Pa. Owner ,Walter Rehrig, care of architects. Brick, stone, reinforced concrete, 5 stories, 100x41 feet, slag roof, concrete and hardwood floors, electric light, tile and terrazzo work, copper work. Revised plans in progress.

Hospital (add.), Laury Town, Carbon County, Pa., $500,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Middle Coal Field Poor District, care of J. A. Bayless, secretary, Hazleton, Pa. Fireproof, 3 and 4 stories, 50x150 feet and 60x100 feet, composition roof and floors, steam heat, electric light, tile and terrazzo work, metal lath, elevators, roof ventilators, skylights. Owners taking bids due June 7th.

Residence, Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owner, Louis Klein, 330 Taylor street, Scranton, Pa. Frame and stucco, 2½ stories, 30x36 feet, tile roof, hardwood floors, electric light, tile work. Owner ready for bids.

Bungalow, Scranton, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton. Owner, Michael Langan, Prospect avenue, Scranton, Pa. Tile and stucco, 1½ stories, 28x42 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Owner ready for bids.

Church and Sunday School, Wilkes-Barre, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Westminster Presbyterian Church, care of Rev. Davis, Westminster and Lockhardt streets, Wilkes-Barre, Pa. Stone, 1 story and basement, 49x105 feet and 92x67 feet, slate roof, hardwood floors, electric light. Architect will take bids June 1st.

Residence, Kingston, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owner, Dr. A. W. Grove, Kingston, Pa. Tile and stucco, 2½ stories, 34x38 feet, slate roof, hardwood floors, electric light, tile work. Architects will be ready for bids June 2nd.

Central High School (add.), Scranton, Pa., $500,000. Architect, Edward L. Langley, Scranton Life Building, Scranton. Associate architects, Sprague & Slocum, 167 West Thirteenth street, New York. Owners, Scranton School Board, Mr. Hughes, secretary, Administration Building, Scranton, Pa. Stone, brick, steel, 3 stories and basement, 205x90 feet, tile roof, maple floors (heating, plumbing and lectric work reserved), tile, marble and terrazzo work, hollow tile, metal lath, elevators, safety treads, roof ventilators, skylights, waterproofing. Owners will be ready for bids about June 15th.

School (add. and alts.), Aristes, Columbia County, Pa., $75,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Conynham Township, Edward J. Britt, secretary, on premises. Brick, 2 stories and basement, 80x64 feet, hardwood floors, tile work, electric light, general alterations. Owners will take bids in one week.

School (add.), William Penn, Pa., $40,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, West Mahonoy Township School District, J. R. Coyle, secretary, Lost Creek, Pa. Frame, 2 stories, 4 rooms, general alterations. Owner will take bids in one week.

School and Gymnasium, Herrick Center, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton. Owners, Herrick Center Township School Board, George E. Giles, secretary, Herrick Center, Pa. Brick, 1 story and basement, 64x80 feet, slag roof, hardwood floors, steam heat, electric light, hollow tile, roof ventilators, iron work. Plans in progress. Owners will take bids in two weeks.

Residence and Garage, Dorranceton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Dwight Fisher, are of architects. Shingle, 2½ stories, 26x48 feet, garage, 1 story, 18x20 feet, shingle roof, hardwood floors, steam heat, electric light, metal lath. Architects taking bids.

Apartment, Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Thomas Protheroe, 838 Monroe avenue, Scranton, Pa. Brick, frame and stucco, 3 stories, 80x33 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile work. Architect taking bids due June 10th.

Residence, Merion road and Bowman avenue, Merion, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate and slag roof, hardwood floors, hot water heating, electric lighting, tile work, cement work. Preliminary plans in progress. Architect will take bids in one month.

Auto Show Room and (4) Stores, Fifth and Main streets, Darby, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Harry Swope, Darby, Pa. Brick, 1 story, 100x60 feet, slag roof, cement and maple floors, hot water heat, electric light, tile and marble work, metal bulks. Plans in progress.

Mother House and Power House, Dallas, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, Wilkes-Barre, Pa. Brick, granite and steel, 3 and 4 stories and basement, 152x50 feet, (2) wings 37x83 feet, and (1) wing 45x28 feet, power house, 1 story and basement, 59x43 feet, slag and tile roof, oak and cement floors, hollow tile, dampproofing, iron stairs and work, bond, hollow metal doors, copper skylights, tile, marble and terrazzo work, metal lath. Architect taking bids due June 3rd.

Bank, Hummelstown, Pa., $45,000. Architect, George G. Grove, 213 Walnut street, Harrisburg, Pa. Owners, Hummelstown National Bank, U. L. Balsbaugh, on premises. Brick or stone, 1 story, 40x45 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, metal window guards, ornamental iron work. Plans in progress.

Apartment and Store (alts. and add.), 2103 Sixth street, Harrisburg, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Camp Curtin Trust Co., Sixth street, Harrisburg, Pa. Brick, 3 stories, composition roof, hardwood floors, electric light, tile work, general interior alterations. Plans in progress.

High School, Unit C, Third and Harris streets, Harrisburg. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board, D. B. Hammelbaugh, 121 Chestnut street, Harrisburg, Pa. Brick, reinforced concrete, steel ,2 stories and basement, 420x440 feet, composition roof, cement and wood floors, metal lath tile,, marble and terrazzo work (heating, plumbing and electric work reserved). Owners ready for bids due June 23rd.

Residence, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Penrose Ruhl, Lititz, Pa. Brick, 2½ stories, 30x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect will be ready for bids June 1st.

Residence, Harrisburg, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Roy Shriner, Harrisburg, Pa. Brick, 2½ stories, 30x41 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath. Owner ready for bids.

High School (add.), Millersville, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Manor Township School Board, F. F. Brenne, Highville, Lancaster County, Pa. Brick, 2 stories, 80x95 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved), roof ventilators, rolled steel skylights. Owner will take bids in two weeks.

Factory, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, H. J. Pierson, Lititz, Pa. Brick and steel, 2 stories, 20x40 feet, 20x90 feet, slag roof, composition floors, steam heat, electric light, roof ventilators, rolled steel sash, fire doors, iron stairs. Owner taking bids due as soon as possible.

Residence, Broad street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, James F. Zboyovsky, South Bethlehem, Pa. Hollow tile, brick, 2½ stories, 37x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for bids due June 1st.

Freight Station, Howard street, Allentown, Pa. Architects, Tilghman-Moyer Co., 824 Hamilton street, Allentown, Pa. Owners, Lehigh & New England R. R. Co., Bethlehem, Pa. Brick, steel, 1 and 2 stories, 122x40 feet, slag roof, concrete floors, metal lumber, hot water heat, electric light, skylights, steel rolling doors, concrete stairs. Owners taking bids due June 27th.

Cottages (2), Shermanstown, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Methodist

Home for Children, Dr. E. R. Heckman, 2116 North Third street, Harrisburg, Pa. Stone, fireproof, 3 stories, 42x60 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble work, hollow tile, metal lath, iron stairs. Architect taking bids due June 5th.

Residence, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Mrs. J. P. Baily, 301 Gay street, Phoenixville, Pa. Brick and stone, 2½ stories, 34x34 feet, slate roof, oak and tile floors, vapor vacuum heat, electric light, plumbing, terra cotta flues. Plans in progress.

Residences (15), Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, John L. McCarraker, 328 Fourth avenue, Phoenixville. Hollow tile and brick, stucco, 2 stories, 16x46 feet, tin roof, oak floors (heating, plumbing and lighting reserved), hollow tile, plumbing. Plans in progress.

Bungalow, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford. Owner, Frank Katz, Bridge and Cedar streets, Spring City, Pa. Brick and stone, 1½ stories, 30x40 feet, asbestos roof, oak floors, pipeless heat, electric light, plumbing, waterproofing, terra cotta work. Plans in progress.

Twin Houses, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford. Owner, A. R. Saylor, R. D., Royersford, Pa. Brick and stone, 2 stories, 33x36 feet, tin roof, yellow pine floors, pipeless heat (heating, plumbing and lighting reserved). Plans completed.

Twin Residences, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford. Owners, John Jones & Sons, Penn street, Spring City, Pa. B rick and stone, 2½ stories, 33x51 feet, asbestos shingle roof, oak and yellow pine floors, hollow tile, steam heat, electric light, tile work. Plans completed.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Jude Wickersham, Steelton, Pa. B rick, 2½ stories. Architect selected.

Bank and Auditorium and Apartment, Sixth and Maclay streets, Harrisburg. Architect, not yet selected. Owners, Brotherhood Relief & Compensation Fund, care of L. G. Smith, Harrisburg, Pa. Twelve stories, 126x126 feet. Work contemplated.

Residence, William Penn Highway, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Mrs. Amelia Wickel, care of architect. Brick, 2½ stories, 28x30 feet, slate roof, hardwood floors, hot water heat, elctric light, tile work. Plans in progrss.

Factory, Bethlehem, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Solomon Goodman, 704 Dakota street, Bethlehem, Pa. Brick, mill construction, 3 stories, 75x80 feet, slag roof, pine floors, steam heat, electric light, rolled steel sash and skylights, fire doors. Architect ready for bids due June 15th.

Store and Apartment (2), Springfield, Delaware County, Pa. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. Stone and brick, 2 stories, 24x45 feet, slag roof, mineral floor, cement work, hot water heat, electric lighting, tile work, plastering, plate glass. E. J. Kreitzburg, 1345 Arch street, Philadelphia, is taking sub-bids.

Residence, Store and Apartment (add.), Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Robert E. Laramy, 207 Burke street, Easton, Pa. Brick, 2 stories, 20x90 feet, tin and slate roof, hardwood floors, hot water heat, electric light, tile work, metal ceilings. Architect will be ready for bids June 1st.

Factory, New street, Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owner, Jerry Quinlin, New street, Bethlehem, Pa. Brick, 3 stories, 60x25 feet, concrete foundations, slag roof, pine floors, electric light, elevators, rolled steel sash, fire doors, elevators, roof ventilators. Architect ready for bids due June 8th.

Store and Office, 913 Hamilton street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, F. T. L. Keiter, 909 Hamilton street, Allentown, Pa. Brick, steel and tile, 3 stories, 22x110 feet, built-up roof, yellow pine floors, hollow tile, metal lath, steam heating, electric lighting, tile work, rolled steel sash, terra cotta. Owner taking bids.

Residence, Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owners, Frank Groman & Son, Odd Fellows' Building, Bethlehem. Brick, 2½ stories, 40x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner is building.

Administration Building (add.), 31 South Penn street, Allentown. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, School District of Allentown, David Jacks, chairman, Allentown, Pa. Brick, fireproof, 3 stories, 52x64 feet, slag roof, hardwood floors, electric light, tile work. Owners taking bids due June 13th.

Residence (alts.), South Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owner, Lehigh University, care of architect. General aiterations, hardwood floors, tile work, new partitions (heating, plumbing and electric work reserved). Architect taking bids due June 3rd.

Church (alts. and add.), Elkins Park, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, St. Paul's Episcopal Church, Elkins Park, Pa. Carpentry, mill work, stone work, hot water heating, electric light, metal lath, tile work, painting, glazing, plumbing, iron work. Architect taking bids due June 1st.

Church, Windgap, Pa. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owners, St. Joseph's Roman Catholic Church, care of Rev. Peter Montiano, Wind Gap, Pa. Stone and frame, 1 story and basement, 50x70 feet, slate roof, pine floors (heating and plumbing reserved, electric light. Architect taking bids due June 2nd.

Residence, Newtown, Bucks County, Pa. Architect, Charles R. Parker, 129 South Fifth street, Philadelphia. Owner, Miss Mary Waugh, Newtown, Pa. Brick, 2½ stories, 30x45 feet, slate roof, hardwood floors, hot water heat, electric lighting. Plans in progress.

Residence, Penfield, Pa. Architect, Charles R. Parker, 129 South Fifth street, Philadelphia. Owner, Lewis Street, care of architect. Frame, 2 stories, 40x22 feet, shingle roof, hardwood floors, hot water heat, electric lighting. Plans in progress.

Residence and Garage, Lansdowne, Pa. Architect, private plans. Owner, name withheld. Ston eand frame, 2½ stories, 69x31 feet, slate roof, oak, pine and cement floors, hot water heat, electric light, tile work, bond, iron work. William R. Dougherty, 1610 Sansom street, Philadelphia, taking sub-bids.

Residence, Cynwyd, Pa. Architects, Druckenmiller & Williams, 1537 Chestnut street. Owner, A. C. Delaplaine, Bala, Pa. Hollow tile and plaster, 2½ stories, 79x28 feet, slate roof, oak and pine floors, hot water heat, electric lighting, tile work. Architects taking bids due June 2nd.

Pennsylvania Contracts Awarded

Apartments (12), River and Ross streets, Wilkes-Barre, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, S. Engli & Gast, West South street, Wilkes-Barre, Pa. Brick, concrete, 3 stories, 117x44 feet, asphalt shingle roof, hardwood floors, steam heat, electric light, tile and marble work. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

Packing House (add.), Williamsport, Pa., $130,000. Architect, C. B. Comstock, 110 West Fortieth street, New York City. Owners, John Peters Packing Company, Williamsport, Pa. Concrete, brick and steel, 4 stories, 68x68 feet, composition roof, concrete floors, waterproofing, iron work, bond, rolled steel sash, cork insulation. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Stores (2), Lincoln Highway, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, William Armstrong, Ardmore, Pa. Brick, 2 stories, 32x25 feet, slag roof, maple floors, hot water heat, electric lighting, tile and marble work, metal bulks, iron work. Contract awarded to Merion Const. Co., 2313 Walnut street.

Residence and Garage, Moylan, Pa., $20,000. Architect, Walter F. Price, 119 South Fourth street, Philadelphia. Owner, Edwin A. Hoopes, care of architect, or Mt. Pocono, Pa. Stone and frame, 2½ stories, 65x25 feet, irregular, shingle roof, oak and pine floors, hot water heat, electric light, tile and marble work. Contract awarded to J. W. Worrilow, Media, Pa.

Residence, Narberth, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owner, L. N. Richardson, Narberth, Pa. Brick, 2½ stories, 26x44 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath, bond, iron work. Contract awarded to J. H. Hinkle Co., Twenty-fifth and Delancy streets.

School (completion), Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Board of Directors- Lower Merion School District, Cynwyd, Pa. Slate work, carpentry, mill work, iron work, maple floors, plastering, painting, glazing, metal lath, bond, iron stairs, rolled steel doors. Contract awarded to McCloskey Co., Inc., 1620 Thompson street, Philadelphia.

Residence, Bryn Mawr, Pa. Architect, Arthur H. Brockie, 244 South Fifteenth street, Philadelphia. Owner, Miss Bertha Black, Bryn Mawr, Pa. Stone and stucco, 2½ stories, 49x28 feet and 19x38 feet, slate roof, oak and pine floors, elevator, hot water heat, electric lighting. Contract awarded to Henry P. Wolfe & Co., Bryn Mawr, Pa.

Garage and Tool House, Merion, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, K. Schwartz, Merion, Pa. Stone, 1½ stories, slate roof. Contract awarded to Charles C. Pace, Merion, Pa.

Warehouse, Scranton, Pa. Architect, A. J. Ward, 1106 Grand View avenue, Scranton, Pa. Owner, R. F. Post, 33 Lackawanna avenue, Scranton, Pa. Brick, stone, steel, concrete, 2 and 3 stories, 60,000 feet floor space. Contract awarded to Thomas Palmer, Miller Building, Scranton, Pa.

Hotel (alts. and add.), Sunbury, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Neff & Neff, Sunbury, Pa. Hollow tile and plaster, new fourth and fifth floors, asbestos built-up roof, concrete and pine floors, hollow tile, metal lath (elevators and heating reserved), floor hardener, bond, hollow metal skylights, rolled

steel sash, electric light. Contract awarded to I. O. Fetter, Sunbury, Pa.

Residence (alts. and add.), Strasburg, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Milton Ranch, Lancaster, Pa. Brick, 2 stories, 15x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded to M. Book, Strasburg, Pa.

Printing Plant, Bethlehem, Pa. Architects, Boyd, Abel & Gugert, Estey Building, Philadelphia. Owners, Morgan Printing Co., McGraw Building, New York City, care of Mr. Buck, Chamber of Commerce, Bethlehem, Pa. Brick, cut stone, steel and concrete, 1 story, 769x92 feet, (2) wings 167x82 feet, (1) wing 81x62 feet, slag roof, cement floors, terra cotta, iron work, floor hardener, bond, rolled steel sash, tile work, steam heat, electric lighting, metal lath. Contract awarded to Frank J. Glassmire, Bthlehem Trust Building, Bethlehem, Pa.

New Jersey Construction News

School, National Park, N. J. Architect, Charles H. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Borough of National Park, N. J. Brick, cut stone and steel, 2 stories, 59x39 feet, slag roof, pine floors, safety treads, iron work, electric light, metal lath. Owners taking bids due June 4th.

Garage, Mt. Holly, N. J. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, W. D. Marren, Mt. Holly ,N. J. Brick and steel, 1 story, 100x40 feet, slag roof, cement floors, rolled steel sash. Architects taking bids due June 3rd.

High School (alts. and add.), Pleasantville, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, Pleasantville School Board, care of architect. Brick, 2 stories and basement, 33x83 feet, slag roof, hardwood floors (heating, electric work and plumbing reserved), tile work. Plans in progress.

School (add.), Troy avenue, Ventnor, N. J., $85,000. Associate architects, Vivian B. Smith and J. Vaughn Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Ventnor School Board, W. Zimmerman, secretary, Guarantee Trust Building, Atlantic City, N. J. Brick, 2 stories and basement, 9 rooms, slag roof, hardwood floors (heating, electric work and plumbing reserved), metal lath, roof ventilators, skylights, waterproofing and dampproofing. Plans completed. Owners will take bids in two weeks.

Comfort Station, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owners, City or Trenton, Mr. Page, Commissioner, City Hall, Trenton, N. J. Brick, 1 story, 45x16 feet, tile roof and floors, electric lighting. Plans in progress.

School, 904 Pacific avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Beth Israel Cong., Dr. Bisher, Seaside avenue, Atlantic City, N. J. Brick, 2 stories, 40x50 feet, slag roof, pine floors, electric light, roof ventilators. Owner taking bids.

School (add.), Elridge pike, Lawrence Township, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton. Owners, Lawrence Township School Board, Edward Pearson, secretary, Lawrenceville, N. J. Brick, 2 stories and basement, 56x62 feet, slate and slag roof, hardwood floors, steam heat, electric light, metal lath, tile work, hollow tile, safety treads, roof ventilators, metal ceilings, steel sash, fire doors, damuproofing, steel stairs. Owner taking bids due June 15th.

Hospital (add.), Ohio and Michigan avenues, Atlantic City. Associate architects, H. A. Stout and J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Atlantic City, care of E. L. Bader, City Hall, Atlantic City, N. J. Frame and metal, 1 story, 40x130 feet, slag roof, pine floors, electric light, roof ventilators. Architects taking bids due as soon as possible.

Church, Ventnor, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owners, Ventnor Community Church, Ventnor, N. J. Stone, 1 story, 65x85 feet, slate roof, electric lighting, terra cotta, iron work (heating and electric fixtures reserved). Architect taking bids due June 2nd.

Store and Apartment (alts. and add.), 220 North Broad street, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, George Hornketh, 631 Princeton street, Trenton, N. J. Brick, 3 stories, 75x16 feet, slag roof, tile and hardwood floors, hot water heat, electric light, tile work, skylights, hollow tile, waterproofing. Plans in progress.

Show Room and Apartment, 3600 Atlantic avenue, Atlantic City. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City, N. J. Owner, M. E. Causkaden, care of architect. Brick, hollow tile and steel, 3 stories, 70x70 feet, slag roof, pine floors, hot water heat, electric light, metal lath, hollow tile, tile and marble work, skylights, ornamental iron work. Architect ready for subbids.

Apartment, Ventnor avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, A. A. Stevens, Ventnor avenue, Ventnor, N. J. Brick, 3 stories, 81x70 feet, slag roof, pine floors, hot water heat, electric light, tile work, metal lath, iron stairs. Owner ready for subbids.

Psychiapric Clinic (alts.), Morris Plains, N. J., $40,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Capitol Building, Trenton, N. J. Owners, State of New Jersey, care of Dr. Curry, superintendent, on premises. Alterations to chimney, insulation for refrigeration, water lines, electric work. Architects taking bids due May 31st.

Hotel, Southeast Corner Commerce and Pearl streets, Bridgeton, N. J. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owners, Bridgeton Hotel Co., Bridgeton, N. J. Brick, granite, cut stone and steel, 5 stories, 117x44 feet, wing 46x73 feet, asbestos asphalt roof, cement and maple floors, hollow tile, roof ventilators, waterproofing, terra cotta, iron work and stairs, tile, marble and terrazzo, metal lath (elevators reserved) (plumbing, heating, lighting and ventilating separate bids). Bids submitted: Moore & Co., Nineteenth and Cherry streets, Philadelphia, $286,000; George A. Fuller Co., 321 Walnut street, Philadelphia, $298,000.

Apartment House, Asbury Park, N. J. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, name withheld. Hollow tile and stucco, 3 stories, (6) apartments, slag and tile roof, hardwood floors, electric lighting. Preliminary plans in progress.

Residences (2), Kaighn's and Princess avenues, Camden, N. J. Architect, H. N. Moffett, 533 Market street, Camden, N. J. Owner, Philip Wondkos, 1501 Princess avenue, Camden, N. J. Brick, 2 stories, 30x66 feet and 34x25 feet, slag roof, oak, pine and maple floors, tile work. Owner taking bids due as soon as possible.

Convent (add.), Camden, N. J. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owners, Roman Catholic Church of the Sacred Heart, Camden, N. J. Brick, 2 stories, 35x38 feet, slag roof, pine floors, vapor heat, electric lighting, tile work. Plans in progress. Architect will take bids in one week.

Residence and Apartment, South Texas avenue, Atlantic City, N. J. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, Stanley Const. Co., 177 Virginia avenue, Atlantic City, N. J. Brick, 2 stories, 15x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners will take sub-bids in one week.

School, Brooklawn, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Board of Education, Brooklawn, N. J. Brick, cut stone and steel, 2 stories and basement, 87x61 feet, slate roof, maple floors. Lowest bids submitted by Penn Const. & Eng. Co., 3840 Spring Garden street, Philadelphia, $52,000. George W. Shaner & Son, Palmyra, N. J., $65,450; William Linker Co., 735 Cherry street, Philadelphia, 67,700. Electric, Buzby & Thomas, Bourse, Philadelphia, $795. Heat, Camden Heating Co., Camden, N. J., $7,987. Plumbing, Harry Knecht, Camden, N. J., $2,575.

Store and Apartments, Broadway and Benson streets, Camden, N. J. Architects Lackey & Hettle, 509 Federal street, Camden, N. J. Owner, Dr. J. Lynn Mahaffey, 408 Cooper street, Camden, N. J. Brick, cut stone and steel, 3 stories, 57x38 feet, slag roof, composition, pine, oak and cement floors, roof ventilators, steam heat, electric light, metal lath, tin covered doors, bond, iron work. Architects taking bids due June 9th.

School (add.), Rosenhayn, Cumberland County, N. J. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Deerfield School Board, Rosenhayn, N. J. Brick, 2 stories (4-room addition), composition roof, maple floors. Plans in progress.

Garages (5), rear of 227 North Warren street, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owner, Dr. D. Lee Haggerty, 227 North Warren street, Trenton, N. J. Brick, 1 story, 40x20 feet, slag roof, concrete floors, steam heating, electric lighting. Architect taking bids due June 29th.

New Jersey Contracts Awarded

War Memorial, Pacific avenue, between States and Maryland avenues, Atlantic City, N. J., $110,500. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, Board of Commissioners, City Hall, Atlantic City. Brick, cut stone and steel, 2 stories, 100x55 feet, J-M roof, concrete and maple floors, hollow tile, metal lath, waterproofing, iron work and stairs, kalamein doors, rolled steel sash, tile, marble and terrazzo work. Contracts awarded to P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia. Electric, Electric Equip. Co., Commonwealth Building, Philadelphia, $2,600. Heating, Currie Co., Atlantic City, N. J., $8,180. Plumbing, Edward W. Yeutter, 29 South New York avenue, Atlantic City, N. J., $4,152.

Bank, Texas and Atlantic avenues, Atlantic City, N. J., $100,000. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owners, Chelsea Safe Deposit & Trust Co., Atlantic City. Limestone, brick, 1 story, 60x90 feet, concrete roof, tile floors, hot water heat, electric light, tile, marble and terrazzo work, bank fixtures. Contract awarded to Abacus Const. Co., Segal Building, Atlantic City.

Garage, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Castanea Dairy Co., 234 North Broad street, Trenton, N. J. Brick,

steel, 1 story, 50x60 feet, slag roof, concrete floors, steam heat, electric light, hollow tile, roof ventilators, rolled steel sash and skylights. Contract awarded to S. W. Mather & Son, Greenwood avenue and Canal street, Trenton, N. J.

Warehouse, Baltic and Delaware avenue, Atlantic City, N. J. Architect, Clark Dillenback, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway, Reading Terminal, Philadelphia. Lessee, W. G. Robinson, Atlantic City, N. J. Brick, 2 stories, 100x157x71 feet, slag roof, cement floors, hollow tile, waterproofing, iron work, steam heat, electric lighting. Contract awarded to U. G. Robinson, Atlantic City, N. J.

Masonic Building, Vineland, N. J. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Masonic Temple, Vineland, N. J. Brick and cut stone, 3 stories, 98x51 feet, slag roof, maple floors, metal lath, steam heat, electric light, tile work, iron work. Contract awarded to James Pasquali, Vineland, N. J.

Wall, Orchard and Mt. Vernon streets, Camden, N. J. Architect, private plans. Owners, Camden Pottery Co., Camden, N. J. Reinforced concrete and steel, wall 200 feet long. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Miscellaneous Construction News

Warehouse, Wilmignton, Del., $200,000. Architect, not yet selected. Owners, Holstein Harvey's Sons, Inc., Third and French streets, Wilmington, Del., care of Mr. Norton Harvey. Work contemplated.

Residence, Miami, Florida. Architect, J. Vaughan Mathis, Guarantee Trust Building, Atlantic City. Owner, Joseph Frailenger, Shankville, Pa. Hollow tile, stucco, 2 stories, 30x42 feet, 30x8 feet, Spanish tile roof, pine floors, electric light, tile work. Owner will take bids.

Bungalow, Lima, Ohio. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Frank Edward Bentz, Lima, Ohio. Frame, 1½ stories, 32x28 feet, shingle roof, pine floors, hot air heat, electric lighting. Owner will build.

Bungalow, Mineola, L. I., N. Y. Architect, C. E. Shermerhorn, 430 Walnut street, Philadelphia. Owner, George H. Terry, Mineola, L. I., N. Y. Frame, 1½ stories, 32x28 feet, shingle roof, pine floors, hot air heat, electric lighting. Owner will build.

Residence and Garage, Newark, Del. Architect, Alfred Lewis Ward, Stephen Girard Building, Philadelphia. Owner, J. Pilling Wright, care of architect. Brick, cut stone and steel, 2½ stories, 51x36 feet, wing 34x19 feet, and 1½ stories, 28x16 feet, slate roof, composition, oak and pine floors, hot water heat, electric light, tile and marble work, bond, iron work. Architect taking bids.

(Continued from Page 344)

ginally intended for city offices, it was necessary to tender a portion of it to the United States Supreme Court,, when the Federal Government was moved to Philadelphia in 1790. The Supreme Court held its first session in the building on February 7, 1791. The Supreme Court of the State of Pennsylvania also sat in the building and subsequently it was occupied by the City Councils.

When we read in the early history of the Colonies that smoking was prohibited within the city limits in certain provinces and travellers were prohibited from smoking but once in a ten mile journey in others, we are inclined to attribute puritanic instincts to our staid and sober forebears but certainly they did not taboo the lottery, for the records show that a lottery was instituted to further the erection of this "Towne Hall" in Philadelphia with $50,000.00 as the aggregate, 20 per cent. of which was to go to the fortunate winner.

At the rear of this interesting group was the "State House Yard" or the "Mall" as it was sometimes called. This contained a serpentine walk and it was the custom of the elite to promenade thereon upon pleasant afternoons as a mode of recreation. The "Mall" was surrounded by a brick wall with piers at regular intervals, the entire height of which was 8 feet. The city fathers became apprehensive that the air in the "State House Yard" was not conducive to the public health and after deep deliberation it was deemed desirable to remove the brick wall between the piers and to replace thet same with "iron palisades in order that the atmosphere might me made more salubrious." It is to be hoped that the treatment was efficacious.

Steadfast and true to every belief that they held, these sturdy pioneers of the young Republic have left us monuments of government and of art which we of a more hectic generation may well strive with like singleness of purpose to emulate.

Up until 1829 all the bricks used in this country were made by hand, but during that year the manufacturing of brick by machinery was successfully started. In New York the machinery then used made twenty-five thousand bricks per day and they were sold for Five Dollars ($5.00) a thousand. The Salamanda Fire Brick Works at Albany, New York. was established that year and was so successful as to stop the importation of fire bricks.

So closely is the making of brick interwoven with the march of human progress that one must go back to the dawn of history to learn of the beginning of the industry. The earliest evidences we have of recorded history are a few manuscripts and inscriptions found in Egypt, dating back about three or four thousand years B. C. Those of Babylonia are scarcely less ancient. Both of these countries owe their prosperity to great rivers which inundated the land enriching it for agricultural pursuits and furnishing also great deposits of clay from which the natives built houses. first of adobe and then of brick. Israel labored long in Egypt as brick makers as Scripture records. Babylonia, situated as it was between the Tigris and Euphrates Rivers in the valley called Mesopotamia (The land between the rivers) possessed no forests although the date palm was abundant and with little stone, they early restored to the expedient of moulding the clay into bricks, which were dried in the sun and from these they built their cities.

Of all the early Babylonian kings the most famous was Hammurabi, who ruled about 2000 B. C. He it was who formulated the oldest code of laws which we have any record, but long before man achieved a legal code he made bricks and from the characters imprinted upon these bricks, marking the dynasty under which they were made, many important dates in history have been verified.

Noble indeed has been the art of brick making and human progress owes much to this industry.

In further connection with the early use of brickwork locally, Mr. Joseph T. Byrne, Secretary of the Philadelphia Brick Manufacturers' Association, said:

"Out of all the data concerning Philadelphia's place in history and among the thousands of valuable and interesting facts connected with the development and growth of this city in its early days, probably by far the most interesting to the members of the Associations gathered here and to many others also, is that relating to the use of brick.

In order that you may appreciate the extent to which clay has entered into the growth of our city as expressed in its architectural and historic monuments, let me mention the following as but a few of our finest colonial buildings.

The William Penn House, now standing in Fairmount Park, was erected for William Penn before he landed in the year 1682 and stood on Letitia Street below Market.

In 1700 Old Swedes' Church was built and was then deemed a great edifice. This was followed by many others of common brick, among the more important of which were Stenton, the home of James Logan, 1727, at one time the headquarters of George Washington; Independence Hall or the State House begun in 1729, and completed in 1734, at a cost of £5,600, the bricks costing 31-s; 8-d per thousand and the laying 10-s; 6-d.

(Continued Next Week)

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Donnelly & Co. .....319 Vine St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR HARDENER.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HARDWOOD FLOORS.
Geiger, A. F..S. E. Cor. Felton and Media Sts., Phila.

HAULING CONTRACTORS.
Kane & Co. .....1226 N. 9th St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Mont Clare Foundry Co.,
N. E. Cor 11th and Ridge Ave., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

INSULATION.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE.
Insurance Co. of North America,
3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....319 Vine St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LATHER (Wood and Metal)
Whiteman, C. S. .....717 Walnut St., Phila.

LEVELS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

LIGHT IRON CONSTRUCTION.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.

LUMBER.
Felin, Chas. F., & Co.,
Old York Road, above Butler St., Phila.
Haney-White Co. .....17th and Glenwood, Phila.
Irwin, James M., & Co. .....976 N. 8th St., Phila.
Kugler, Geo. W., & Sons Co.,
915 New Market St., Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

MARBLE MOSAIC.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

METAL LATH.
Donnelly & Co. .....319 Vine St., Phila.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co.....1345 Arch St., Phila.

METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

MILL WORK.
Haney-White Co. .....17th and Glenwood, Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

OFFICE PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

ORNAMENTAL IRON.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works,
809 Master St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

PAINTING (Plain and Decorative).
Clark, M. H. .....58th and Larchwood Ave., Phila.

PAINTS AND VARNISHES.
Truscon Laboratories.....1432 S. Penn Square, Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.

PIPE COILS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

PIPE AND PIPE FITTINGS.
Grant, Chas. J., Supply Co.....1215 Arch St., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Vogel, Joseph, Co. .....Wilmington, Del.

RANGES
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATORS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

ROAD WORK.
Croyle, Guy .....Merion Station, Pa.

ROOFING.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.
Tinney, Walter H., Co.,
63rd and Woodland Ave., Phila.

ROOFING SLATE.
Baird, A. S. .....24 S. 7th St., Phila
Chapman Slate Co. .....Bethlehem, Pa.
Emack, The John D., Co. .....Otis Bldg., Phila.

ROOFING TILE.
Baird, A. S. .....24 S. 7th St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,
Nicetown Lane and Powder Mill Road, Phila.

SAFETY GUARDS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

SAND AND GRAVEL.
Baird, A. S. .....24 S. 7th St., Phila.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co.,
24th and Callowhill Sts., Phila.
Magna Sand Co. .....139 S. 3rd St., Phila.

SEWER PIPE.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

SHEET METAL WORK.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Tinney, Walter H, Co., 63rd and Woodland Ave.

SHEETROCK (Wall Board)
Pearce Fireproof Co. .....1345 Arch St., Phila.

SHINGLES (Asbestos and Asphalt).
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.

SOUNDINGS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

STAIRS (Sheet Steel).
McFarland-Meade Co.,
70th and Kingsessing Ave., Phila.

STEEL SASH.
McFarland-Meade Co., 70th and Kingsessing Ave.

STONE.
Fox Croft Quarry Co. .....24 S. 7th St., Phila.

STRUCTURAL STEEL.
Adelhelm & Phillips.....1511 Sansom St., Phila.

STUCCO.
Daniel C. Sinclair.....East Lansdowne, Pa.

SURETY BONDS.
Stokes, Packard, Haughton & Smith,
434 Walnut St., Phila.

TERRA COTTA (Architectural).
Conkling-Armstrong Terra Cotta Co.,
Denckla Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

TILE AND TERRAZZO WORK.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Jannetti & Carroll.....269 S. 11th St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

TRANSITS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H.....1209 Arch St., Phila.
Warren-Knight Co.....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

VENTILATING SYSTEMS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

WALL BOARD (Sheetrock)
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June 7, 1922

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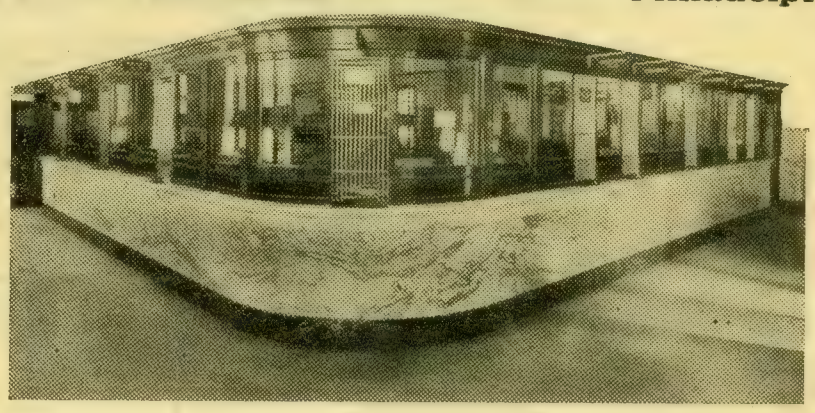
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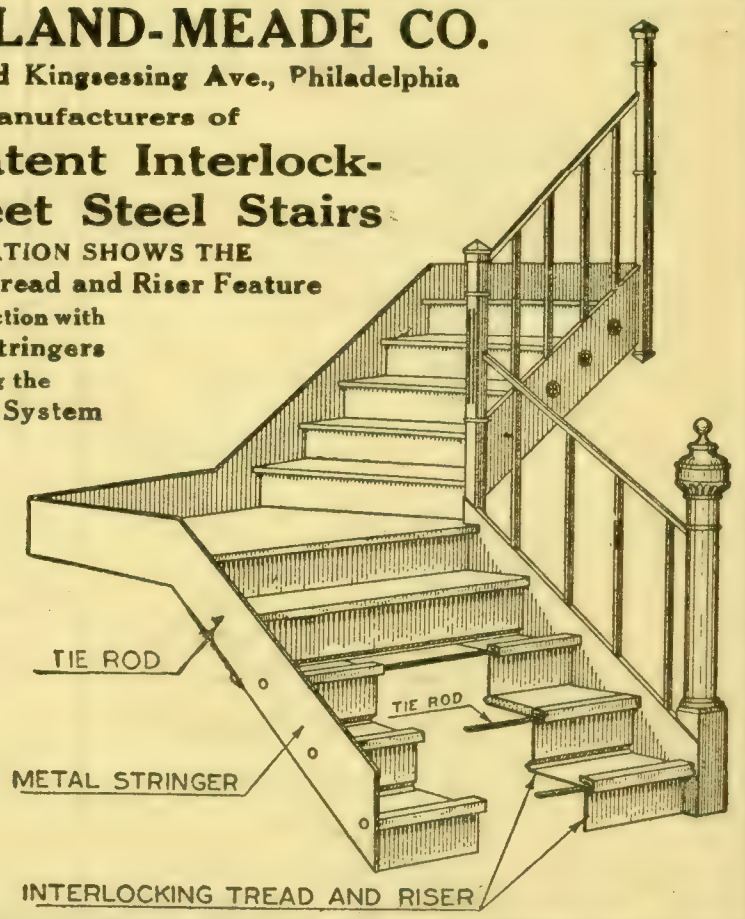
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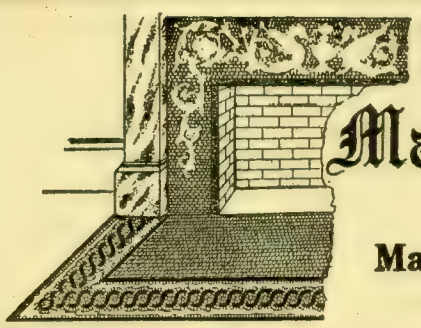


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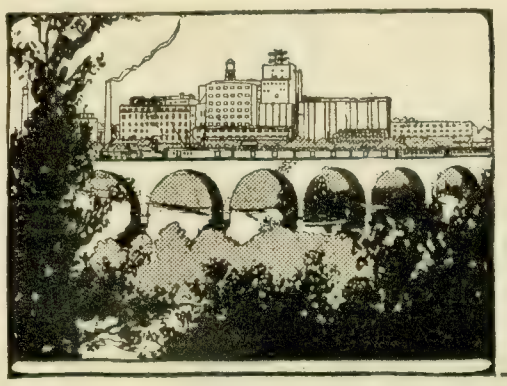
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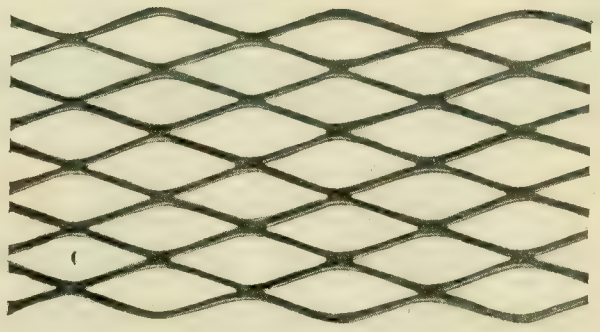
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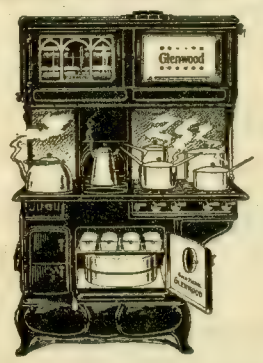
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 23

PHILADELPHIA
June 7, 1922

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As The Editor Sees It

BRICK BUILDINGS AND BRONZE TABLETS

(Continued from Last Week)

At the time that the State House was in the course of construction, Christ Church, another famous landmark of American History was erected in 1731.

During the second half of the 18th Century many other notable buildings of brick were completed in this vicinity, among the examples being the Pennsylvania Hospital, 1775; Woodford, now used as Woodford Guard House, in Fairmount Park, 1756; the Powell House, 1762; Carpenters' Hall, built some time previous to 1774; the Robert Morris House on South Eighth Street, 1786; and the Wharton House, 1796.

The Friends' Meeting House at Fifth and Arch Street, 1786; and the Wharton House, 1796.

The Friends' Meeting House at Fifth and Arch Streets was built in 1804 and is today one of the most prominent examples of brick architecture in the city, with its brick wall surrounding the grave yard in which lie the remains of the immortal Benjamin Franklin.

These are only a few of the notable examples of the use of brick in the early days of Philadelphia, but they furnish a clear idea of the extent to which this material has entered into our history."

Announcement was then made by Mr. Charles B. Siner, President, that the Philadelphia Brick Manufacturers' Association would award bronze tablets for best building erected in Philadelphia in 1922.

A letter announcing these awards has just been sent to the Architects, Engineers and Constructors of Philadelphia from which the following is quoted.

"At the end of this year the Association will award four bronze tablets for those four buildings in Philadelphia and its suburbs which are selected by the Committee of Awards as being those in which, in the opinion of the Committee, the most appropriate and attractive use has been made of Brick produced in Philadelphia.

The awards will be as follows:

One tablet in triplicate to the Architect, the Builder and the Owner of a private residence costing less than approximately $10,000.

One tablet in triplicate to the Architect, the Builder and the Owner of a private residence costing over approximately $20,000.

One tablet in duplicate to the Designer and the Builder of an "Operation" house.

One tablet in triplicate to the Architect, the Builder and the Owner of an industrial building.

The tablets will be suitably designed and each will bear the name of the recipient.

It is hoped that the award of these tablets will encourage Architects, Engineers and Constructors of this City to investigate and become more generally familiar with the characteristics of Philadelphia made bricks and the artistic effects obtainable through their use.

It is the further hope of the local brick industry that a better understanding and co-operation in the production of this splendid local material may, through its more extensive and appropriate use, widen the reputation of Philadelphia and its suburbs as a City of Homes.

Messrs. Albert Kelsey, F. A. I. A.; Carl A. Ziegler, F. A. I. A., and D. Knickerbacker Boyd, F. A. I. A., Chairman, have consented to act as a Committee, or Jury, which will at the end of the year make the awards for buildings completed since January, 1922.

It will afford the Philadelphia Brick Manufacturers' Association much pleasure to receive comments or suggestions from Architects and others concerning the possibilities of production and utilization of local brick.

THE ORIGIN OF BRICK

Romans became master brick makers, acquiring their knowledge during their occupation of Egypt. While the art of burning brick was discovered by the Babylonians about 4500 B. C., the Romans were the first to burn brick in a stationary kiln, which was about the beginning of the Christian era. These kilns were about the same pattern, the

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settling and the firing, as our present clamp kilns. Caesar was one of the first Romans to use burnt brick. In the year 44 B. C., he built the wall of Rostra.

Roman brick in the time of Pliny were made in three sizes which ranged from ½ inch to 2 inches thick, 7 inches wide and 7 inches to 18 inches long, and were used extensively for buildings to a height of seventy feet, as it was thought they would not stand a load of more heighth. Concrete walls were faced with brick and broken fragments of irregular shape, in the middle of the first century, B. C., in order to save brick, but still have the brick effect, but in the ladder part of the first century A. D. they made thin brick especially for this purpose. Even partition walls as thin as 3 inches were faced with brick on both sides.

Pliny ordered all brick to be marked and requested the architects only to use sun-dried brick after they were two years old. Vitruvius made a law at Utica that sun-dried brick should be 5 years old before they were used.

The Romans were very careful in the selection of their clay, preferring a whitish or reddish clay. After the clay was tempered and moulded the drying took place, either in open air or under sheltered roofs, when thoroughly dry they were placed in the kiln for burning and the ones for sun-dried use were placed under cover out of the weather. The Romans' special time for making brick was in the spring and fall. Soldiers for military purposes were largely used for the manufacture of brick.

With the expansion of the Roman Empire brick penetrated every corner of the European continent and found its way across the channel to the British Isles, about 44 A D., and was manufactured under the direction of Alfred the Great in A. D. 886. In these early days children were used a great deal in the brick plants as laborers. The task for two children was to carry enough clay to make 3,000 brick from the clay banks; at one plant their trips combined made 12½ miles per day, and a day's work was 13 hours.

The art of brick making seems to have been lost when the Romans withdrew from Britain, and it is doubtful if any burnt brick were made in Britain from that time until the 13th century, and it is thought any brick used during this time came from ruins of old Roman buildings, such as at Colcheste and St. Albans Abbey. One of the earliest existing brick buildings, erected after the revival of brick making in England, is Little Wenham Hall in Suffolk, built about 1210 A. D., but not until the 15th century did bricks come into general use again, and then only for important edifices.

During the reign of Henry VIII brick making was brought to great perfection, probably by workmen brought from Flanders, and the older portions of St. James Palace and Hampton Court Palace remain to testify to the skill they attained.

The great London fire in 1666 transformed her from a wooden to a brick city, great activities were given to brick, not only the development of brick manufacturing plants, but also to ornamental brick, and the use of the same to buildings. Up to the reign of Charles I brick of various sizes were made, but in 1625, the first year of his reign, the size of brick was regulated by statute and the present standard form 3x4¼x9 was adopted.

There can be no doubt that up to the time the influence of Flanders and Holland in English brick making and bond was formative, and that under this influence a native bond, the Old English, which was substantially the Old Dutch, modified by alternating a pure stretcher course with the header course, was developed, being regarded as structurally the strongest and most reliable bond. But with Charles II and James II a stronger artistic sense invaded the island from the continent so that it is very natural to find the appearance of the Flemish bond in English buildings.

In the year 1784 a duty of one-half a crown per 1,000 was imposed on the brick of all kinds. Ten years later it was raised to 4s per 1,000. In 1803 a classified schedule of duties on brick and tile of different qualities and sizes was used. This remained in force for 30 years, when the duty on common brick was raised and the tile was exempt of any tax; in 1850 the tax on brick was taken off. The brick industry in England started to flourish at that time and the capital invested in the brick industry at that time was about £2,000,000. In England, as early as 1619, there are letters of patent. The eleventh one being for the protection of the "Art of making a certain engine to make and cast clay brick and tile." In 1839 a machine was patented to make 18,000 brick in ten hours. In 1868 forty-seven patents relating to brick and their manufacture had been granted.

In 1629 we have a record of 10,000 brick sent from London, England, to Massachusetts, which was used in the construction of fire-places. In the same year the first brick-kiln was built at Salem Mass.

Among the first brick buildings built in the United States that we have record of was built on Manhattan Island in 1633 by a governor of the Dutch West India Company. These brick were shipped here from Holland. In 1643 a brick watch house was built on Fort Hill, in the town of Plymouth, the brick were sold at 11s per 1,000.

The first brick made in the Anglicon Colonies were made in Virginia as early as 1612 during the administration of Sir Thomas Gates. The first church in Virginia was of brick and was destroyed during Bacon's rebellion in 1676.

In 1667 the Massachusetts court appointed a committee to frame a law to regulate the size and manufacture of brick.

In 1677 a brick college edifice was built at Cambridge and in 1694 a brick meeting house. Two years before this the General Court required buildings above a certain size to be built of brick or stone and their roofs covered with slate or tile.—*The Clay Worker.*

INVITATION TO FIRST MEETING OF CONSTRUCTION COUNCIL

Lacking facilities at present for direct communication with the thousands of important men in the construction industry, the temporary directing committee of the American Construction Council begs leave through the columns of the engineering, architectural and construction press to extend a personal invitation to each member of the industry to attend the organizing meeting in Washington, D. C., June 19 and 20.

The step contemplated, that of bringing together for co-operation in behalf of the industry and of the public all the elements of construction activity—engineers, architects, labor, the contractors, the manufacturers and dealers, and the fin-

(Continued on Page 372)


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Tea Room (alts. and add.), 214 South Fifteenth street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Miss Elizabeth B. Owen, on premises. Architect taking bids due June 7th at noon.

Store (alts.), 5819 Germantown avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, I. Schachtel, on premises. Architects taking bids due June 9th at noon.

Building, 1246 North Broad street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Benjamin Barron, Commonwealth Building, Philadelphia. Architect taking bids due June 10th at noon.

Store and Apartments, Second and Poplar streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Israel Fall, on premises. Brick and steel, 3 stories, 69x45 feet, slag roof, oak and pine floors, hot water heat, electric light, tile and marble, metal lath, metal bulks, iron work. Architect taking bids due June 12th at 2 P. M.

Store (alts.), Eighth and Vine streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York. Owners, United Cigar Co., Tnth and Market streets. Carpentry, mill work, plastering, plumbing, painting, hot water heat, electric lighting. Owners taking bids due June 8th.

Dairy Building, Stable and Power House, Orthodox and Worth streets. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Fischer's High Grade Dairies, on premises. Brick and steel, 2 stories, 40x61 feet, 2 stories, 52x54 feet, and 1 story, 31x16 feet, slag roof, cement and pine floors, waterproofing, wire work, iron work, floor hardener, bond, metal lath (plumbing, heating, lighting and cork insulation reserved). Architect taking revised bids due June 8th.

Residences (2), Wissahickon avenue, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, J. Seitchik, care of architect. Stone, 2½ stories, 29x39 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

Residence, Wissahickon avenue and Park lane, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, A. Jamison, care of architect. Stone, 2½ stories, 27x39 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress.

Factory (add.), Kensington avenue and Butler street, Philadelphia. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owner, Charles B. Cochrane, on premises. Brick and steel, 3 stories, 40x200 feet, slag roof, concrete floors, steam heat, electric light. Plans in progress.

Garages (2), 1418 to 28 Mellon street, and 1433 to 37 Parrish street. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Louis J. Kolb, Tenth and Reed streets, Philadelphia. Brick, 1 story, 71x60 feet, and 1 story, 175x200 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, iron work. Plans in progress.

Store and Residence (alts. and add.), 1930 South Eighth street. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Anthony Del Rossi, on premises. Brick, 2 stories, 25x16½ feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

Home Building, Third and Spruce streets, Philadelphia. Architect, Benjamin Brown, Denckla Building, Philadelphia. Owners, Jewish Sheltering Home for Homeless and Aged, care of B. Sotoloff, 312 Federal street, Philadelphia. Brick, 18x100 feet. Plans in progress.

Wing "H," House of Correction, Holmesburg, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owners, City of Philadelphia, Department of Public Welfare, City Hall. Brick, steel and stone, 1 story, 40x300 feet. Plans about completed. Will take bids in a few days.

Odd Fellows' Hall (alts. and add.), Lyceum and Ridge avenues, Roxboro, Philadelphia. Architect, J. W. Platt, 1627 Sansom street, Philadelphia. Owners, Roxborough Lodge, No. 66, I. O. O. F., Roxboro. Brick, 3 stories, 36x98 feet, will contain auditorium, swimming pool, etc, slag roof, cement work, roof ventilators, waterproofing, tile work. Architect will be ready for bids in two weeks.

Administration Building, Byberry, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, City of Philadelphia, Department of Public Health, Bureau of Hospitals, O. Lincoln Furbush, M. D., Director. Brick and stone, 3 stories. Plans in progress. Details undecided.

Residence, Stenton avenue and Cresheim Valley road, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, P. H. B. Smyth, care of architect. Frame, 3 stories, 25x50 feet, shingle roof. Plans completed. Architect is ready for bids.

Building (alts. and add.) to Hotel, 1137-39 Lombard street. Architect, C. Henry Wilson, 2028 Berks street, Philadelphia. Owner, Alfred Branch, on premises. Brick, 3 stories, 14x32 feet, slag roof, hardwood floors, concrete floor on roof garden, plumbing, tile work, hot water heat and steam heating, electric lighting. Owner will be ready for bids June 15th.

Bath House and Swimming Pool, Frankford avenue and Wakeling street. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, City Hall. Plans completed. Owners will take bids in a few days.

Convent, Second street, below Jefferson street, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, St. Michael's Roman Catholic Church, care of Rev. J. Dugan, Second and Jefferson streets. Brick and brownstone, 3 stories, slag roof, hardwood and tile floors, vapor heating, electric light, tile and marble work. Architect will take bids in ten days.

Machine Shop, Addison street, between Eighth and Ninth streets, Philadelphia. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Saverio Romano, 817 Fitzwater street. Brick, 1 story, 25x36 feet, slag roof, cement floors, electric lighting. Owner is taking sub-bids.

Store and Residence (alts.), 410 South Eighth street, Philadelphia. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Saverio Romano, 817 Fitzwater street, Philadelphia. General intrior alterations, plumbing. Owner is taking sub-bids.

Stores (2), Garages (23), and Shop, 6039 Pine street, Philadelphia. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, A. Auritskey, 252 South Sixtieth street, Philadelphia. Brick, 1 story, 17x80 feet, 72x33 feet and 36x43 feet, slag roof, cement and pine floors, electric light, steam and hot water heating. Owner is taking bids.

Church, Wyoming avenue and A street, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Wyoming Baptist Church, on premises. Stone, 1 story, 68x76 feet, slate roof, composition and pine floors, electric light, tile work (heating and electric lighting reserved). Architect taking bids due June 12th at 4 P. M.

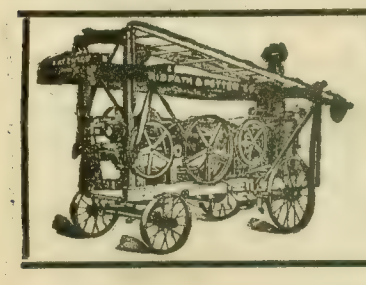
Foundry, 635-37-39 North Watts street, Philadelphia. Architect, H. P. Weldon, 10 South Eighteenth street, Philadelphia. Owners, Thomas Savill's Sons, 1310 Wallace street,

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Philadelphia. Brick, 2 stories, 42x60 feet, slag roof, monolithic finish cement floors, rolled steel sash, terra cotta. Architect taking bids due June 10th.

Club House (alts.), Camac and St. James streets, Philadelphia. Architect, Albert Kelsey, Perry Building, Philadelphia. Owners, Franklin Inn Club, on premises. Steam heat, electric light, tile and marble, metal lath, slag roof, oak and pine floors, plastering, carpentry, mill work. Architect taking bids due June 9th.

Residence, Magnolia, between Church and Germantown avenue. Architect, A. H. Brockie, 1713 Sansom street, Philadelphia. Owner, John W. Whitall, care of architect. Stone, 2½ stories, slag and canvas roof (alternate for slate), oak and pine floors, metal weather strips, iron work, tile and marble, hot water heat, electric light. Architect taking bids due June 8th.

Supplies, Philadelphia. Owners, City of Philadelphia, H. V. MacFadyen, Acting Purchasing Agent, 319 City Hall. Crushed pebbles, fuel oil, extraction naphtha, valves and fire hydrants, iron. Owners taking bids due June 12th at noon. Bids received at Room 312, opened Room 329.

Bridge, South street, over Railroad, Philadelphia. Architect, private plans. Owners, Bureau of Surveys, Department of Bridges, 216 City Hall. Reinforced concrete, 247 feet long, 52 feet wide. Lowest bidders: Monaghan & Losse, Inc., 3016 Chestnut street, $97,161.30; F. J. Boas, 201 North Broad street, $101,000.

Residences (22), Twenty-sixth and Thompson streets, Seybert and Stillman streets, Philadelphia, $76,600. Architect, private plans. Owner, George A. Nahm, 2736 Girard avenue, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, 15x38 feet, 14½x38 feet, 14x28 feet, 12x10 feet, 15x23 feet, 12x9 feet and 15x32 feet, slag roof, hot water heat, electric light, oak and yellow pine floors. Owner will build.

Residences (23), 1915-59 North Sixty-first street, $109,200. Architect, private plans. Owner, Galen Humperley, 2014 Chestnut street, Philadelphia. Brick, 2 stories, 16x32 feet, 12½x13 feet, 15½x45 feet, 16x45 feet, and 15½x23 feet, 12½x13 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (35), (20) 400-38 East Chelten avenue, (5) 5682-90 Magnolia avenue, (3) 5683-87 Morton street, and (7) 401-13 Woodlawn avenue, Philadelphia, $5,400 each. Architect, private plans. Owners, Allen Const. Co., Drexel Building, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hot water heat, electric light. Owners will build.

Garage and Apartments, 1932-34-36 South College avenue, $20,000. Architect, private plans. Owner, Charles W. Butler, 1929 Girard avenue, Philadelphia. Brick and steel, 3 stories, 20x80 feet, slag roof, oak, pine and cement floors, hot water heat, electric work, tile work. Owner will build.

Residences (93), Beechwood street, Snyder avenue and Norwood street, $341,200. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 16x38 feet, 17x34 feet, 14x26 feet, 7x10 feet, slag roof, hot water heat. Owner will build.

Residences (28), Southeast Corner Seventeenth and Moyamensing avenue, Northeast Cornr Seventeenth and Bigler streets, and 2901-51 South Seventeenth street, $78,300. Architect, private plans. Owner, Charles M. Weild, 2737 South Sixteenth street, Philadelphia. Brick, 2 stories, 16x38 feet, 16x21 feet and 22 feet, and 15x30 feet, 11x8 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residence, West side Torresdale avenue, South of Devereaux, $6,500. Architect, private plans. Owner, James McCafferty, 2500 East Lehigh avenue, Philadelphia. Brick, 3 stories, 31x37 feet, slag roof, oak and yellow pine floors, hot water heat. Owner will build.

Residences, South side Tyson street, West of Walker street, $6,000 each. Architect, private plans. Owner, William Radcliffe, 1521 Arrott street, Philadelphia. Brick, 3 stories, 16x39 feet, and 2 stories, 16x11 feet, slag roof, oak and pine floors, hot water heat. Owner will build.

Residence, East side Lawrence street, North of Chew street, $4,200. Architect, private plans. Owner, Carl A. Mayer, 140 Clarkson avenue, Philadelphia. Brick, 2 stories, 15x36 feet, 12x12 feet, slag roof, oak and pine floors, hot water heat. Owner will build.

Residence (add.), Southwest Corner Fifty-fifth and Pearl streets, $6,000. Architect, private plans. Owner, Samuel Verbet, on premises. Brick, second story add., 25x65 feet, slag roof, yellow pine floors, steam heat, electric light. Owner will build.

Residences (18), South side Columbia avenue, East of Sixtieth street, and (34) Oxford street, East of Sixtieth street, $4,800 each. Architect, private plans. Owner, John N. McGarvey, 1613 Lincoln Building, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (21), Lindley avenue, 223 to 263, $4,100 each. Architect, private plans. Owner, George J. Bauerle, 4348 North Eighth street, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, slag roof, hot water heat, electric lighting. Owner will build.

Residence, 4732 North Fifteenth street, Philadelphia, $5,000. Architect, private plans. Owner, M. N. Barnett, 1306 Cambria street, Philadelphia. Brick, 2 stories, 15½x47 feet, hot water heat, electric light. Owner will build.

Residences (2), 7212-14 Montour street, Philadelphia, $8,000 total. Architect, private plans. Owner, Henry J. Tunstall, 1006 Cottman street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 37 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences, North side Fountain street, West of Pechin, $4,000 each. Architect, private plans. Owner, James Stewart, 4554 Manayunk avenue, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hot water heat. Owner will build.

Residences (31), West side Sixth, Duncannon to Fisher, $4,000 each. Architect, private plans. Owner, Carl A. Mayer, 140 Clarkson avenue, Philadelphia. Brick, 2 stories, 16x32½ feet, slag roof, oak and pine floors, hot water heat. Owner will build.

Residences (10), North side Foulkrod street, West of Leiper, $5,000 each. Owner, William

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F. Rafferty, 1346 Harrison street, Philadelphia. Brick, 2 stories, 15x34 feet, 12x11 feet, slag roof, oak and pine floors, hot water heat. Owner will build.

Garage, West side Fifth street, North of Erie avenue, $4,000. Architect, private plans. Owner, Tonguna Tribe, No. 210, I. O. R. M., 3726 North Fifth street, Philadelphia. Brick, 1 story, 26x16 feet, 9x18 feet, 75x16 feet, slag roof, cement floors and hall add., 1 story, 8x9 feet. Owners will build.

Shop (alts.), East side American street, South of Dauphin, $3,000. Architect, private plans. Owners, Enterprise Mfg. Co. of Philadelphia, Third and Dauphin streets. General interior alterations. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Sales and Service Building, 1409-11 North Broad street, $125,000. Architect, Leroy B. Rothschild, 1225 Sansom street. Owners, J. J. Greenberg Co., Morris Building, Philadelphia. Brick, concrete and steel, 5 stories and basement, 55x150 feet, slag roof, cement floors, dampproofing, terra cotta, iron work, bond, kalamein doors, hollow metal skylights, rolled steel sash (heating, plumbing, lighting and salesroom floor reserved). Contract awarded to P. M. Sax, Frank Penfield Building.

Home Building, Broad and Ontario streets, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Masonic Home of Pennsylvania, Freeland Kendrick, president, City Hall, Philadelphia. Brick, concrete and steel, 3 stories, 160x200 feet, slag roof, composition, mastic, concrete and maple floors, hollow tile, safety treads, waterproofing, iron work and stairs, floor hardener, tin clad fire and kalamein doors, tile, marble and terrazzo, metal lath (plumbing, heating and lighting reserved). Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Storage Building, Holmesburg, Philadelphia. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners, H. H. Barton & Son, Holmesburg, Philadelphia. Brick, concrete and steel, 2 stories, 105x40 feet, slag roof, monolithic floors, elevators, roof ventilators, waterproofing, dampproofing, terra cotta, iron work, floor hardener, bond, kalamein doors, rolled steel and hollow metal sash, steam heat, electric lighting. Contract awarded to Roydhouse-Arey Co., 112 North Broad street.

Belmont Central Building (alts. and add.), 5160 Lancaster avenue, $25,000. Architect, J. T. Windrim, Commonwealth Building. Owners, Bell Telephone Co., Seventeenth and Parkway. Brick, cut stone and steel, 2 stories, 32x39 feet, slag roof, composition floors, hollow tile, dampproofing, iron work, marble work, steam heat, electric light. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Apartments, rear of 6301 North Park avenue, $25,000. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick and cut stone, 3 stories and basement, 40x85 feet, slate and slag roof, mineral, pine and oak floors, tile and marble work, kalamein doors, bond, iron work (heating, lighting and plumbing reserved). Contract awarded to United Eng. & Const. Co., 5913 Vine street, Philadelphia.

Ontario Station (alts. and add.), Kensington avenue, between Tioga and J streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Brick and steel, 1 story, 31x8 feet, slag roof, concrete floors, tile work. Contract awarded to Franklin M. Harris Co., 1520 Parrish street, Philadelphia.

Residence (alts. and add.), 1827 Spruce street, $6,000. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, Dr. Brooke M. Anspach, on premises. Brick and steel, 1 story, 10x12 feet, asbestos asphalt roof, pine floors, hot water heat, electric lighting, plumbing, painting, glazing, hardware, roof ventilators, bond. Contract awarded to H. E. Grau Co., 1707 Sansom street.

Bank and Office Building, 1406 to 1412 South Penn Square, Philadelphia. Architects, Furness Evans, Inc., 315 South Fifteenth street, Philadelphia, and McKim, Meade & White, 101 Park avenue, New York City. Owners, Girard Trust Co., Broad and Chestnut streets. Stone, brick, concrete, steel and limestone, 7 stories, elevators, marble and tile, electric light, steam heat. Contract awarded to Geo. A. Fuller Co., Morris Building.

Residence and Store, 5017 North Fifth street, Philadelphia, $13,000. Architect, private plans. Owner, Samuel Hopman, 5019 North Fifth street, Philadelphia. Brick, 2 stories, 20x100 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to B. Brotman, 3913 Wyalusing avenue, Philadelphia.

Residences and Garages (13), 6064-86 Drexel road, $10,000 each. Architect, private plans. Owner, G. Allen Moher, Land Title Building, Philadelphia. Brick, 3 stories, 16½x48 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

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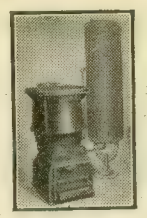
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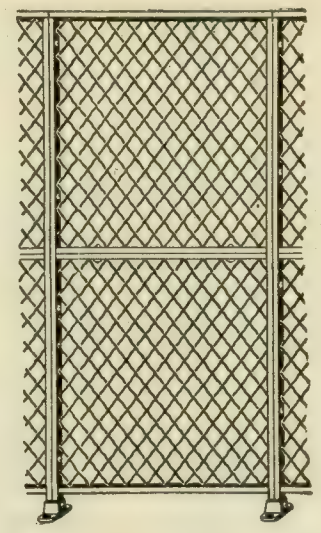
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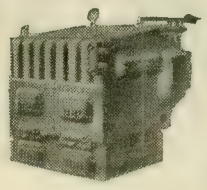
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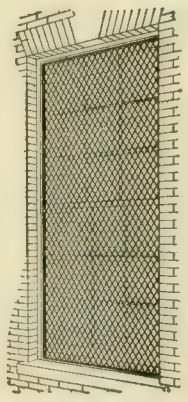
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Apartment (alts. and add.), 1310 South Fifty-third street, $4,000. Architect, private plans. Owner, A. Kinney, on premises B.rick, third story add., 15x30 feet, slag roof, hot water heat, electric light. Contract awarded to France & Missar, 6725 Yocum street.

Residence and Store (add.), 5019 North Fifth street, Philadelphia, $3,000. Architect, private plans. Owner, Samuel Hopman, on premises. Brick, 1 story, 16x14 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to B. Brotman, 3913 Wyalusing avenue.

Storage Building (add.), Northeast Corner Goodman and Ontario streets, $2,800. Architect, private plans. Owner, Martin Hersh, 3334 Germantown avenue, Philadelphia. Brick, second story add., 57x25 feet, slag roof, electric light. Contract awarded to Henry A. Kuhn, 3642 North Marvine street.

Building (add.), 7109 Ridge avenue, $2,000. Architect, private plans. Owner, James Hoffman, Jr., on premises. Brick, 2 stories, 27x16 feet, and 1 story, 18x11 feet, slag roof, pine floors, electric light. Contract awarded to C. M. Swartley, 6835 Ridge avenue, Philadelphia.

Sewer, Johnston street, Seventh to Thirteenth streets, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of Highways, City Hall. Concrete, 6 feet. Contract awarded to Joseph Lombardi, Lincoln Building, $56,013.62.

Sewer, Wood street, Nineteenth to Twentieth streets, Philadelphia. Brick. Contract awarded to Robert Lombardi, Lincoln Building, $10,324.60.

Miscellaneous Inlets, Philadelphia, $14,593.50. Brick and cement. Contract awarded to Fred T. Buckuis, 4050 Kensington avenue.

Anchorages, Camden and Philadelphia sides, Delaware River. Architects, private plans. Owners, Delaware River Bridge Joint Commissions, Widener Building, Philadelphia. Contract awarded to Keystone State Const. Co., 210 South Thirteenth street, Philadelphia, and Holbrook, Cabot & Rollins.

Storage Building, Nixon, North of Fontain street, $60,000. Architects, private plans. Owners, Philadelphia Paper Co., on premises. Brick and steel, 1 story, 200x115 feet, slag roof, concrete floors, rolled steel sash, iron work. Contract awarded to Hughes Foulkrod Co., Commonwealth Building, Philadelphia.

Building (alts.), 1120 Spruce street, Philadelphia. Architect, private plans. Owners, Woodington Co., on premises. Carpentry, mill work, brick work, plastering, hot water heating, plumbing, hardwood floors, general interior alterations. Contract awarded to Turnbull & Cornell, 20 South Eighteenth street.

Store and Two-Family Residence, 604-6-8 Bainbridge street. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owners, Estate of Delsomino Boglietta, Sixth and Bainbridge streets. Brick, 3 stories, 37x30 feet, slag roof, pine floors, hot water heat, electric lighting, tile work. Contract awarded to Philip Pinto, 1319 Tasker street, Philadelphia.

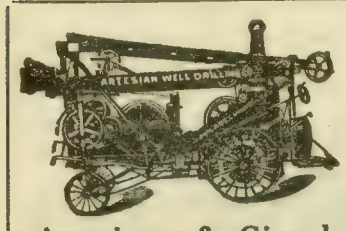
Residence, Queen Lane Manor, Philadelphia. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Mrs. Ensley, care of architect. Brick and hollow tile, 2½ stories. Contract awarded to Triangle Const. Co., 44 Armat street, Germantown.

Factory, Amber and Venango streets, Philadelphia. Architect, private plans. Owners, Gill Glass Co., on premises. Reinforced concrete, 2 stories, 86x20 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Residence, South side Sedgwick street, West of Emlen street, $15,000. Architect, private plans. Owner, Bertha Kendig, 202 East Gorgas lane, Philadelphia. Stone, 3 stories, 27x47 feet, slate roof, oak and pine floors, electric work, hot water heat, tile work, also **Garage**, stone, 1 story, 21x22 feet, cement floors, hot water heat, $1,800. Contract awarded to George H. Miller, 147 Meehan street, Philadelphia.

Residences (2), North side Cottman, East of Claridge, $9,000 total. Architect, private plans. Owner, Mrs. Henry Kuhn, 7408 Bleigh street, Philadelphia. Brick, 2 stories, 16 feet 5 inches x 53 feet 7 inches, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Henry J. Tunstall, 1006 Cottman street.

Residence, Southwest Corner Marshall and Poplar streets, Philadelphia, $9,000. Architect, private plans. Owner, I. Koern, Northwest Corner Fourth and Monroe streets, Philadelphia. Brick, 3 stories, 18x38 feet, 19x18 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract



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awarded to V. Roden, 315 Washington avenue, Philadelphia.

Residence, 816 South Eighth street, Philadelphia, $8,500. Architect, private plans. Owner, Vincenzo Licata, 773 South Eighth street, Philadelphia. Brick, 2 stories, 16x32 feet, 12x36 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to James Macrame, 837 Walnut street, Philadelphia.

Residences (2), West side Bingham street, South of Cottman, $8,000 total. Architect, private plans. Owner, Eihel Addis, 3816 North Sixth street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Northern Const. Co., Fifth and Fisher's avenue.

Twin Residences (4) and Garages (5), Sixty-sixth avenue and Park avenue, Philadelphia, $67,000. Architect, private plans. Owner, Joseph Scholes, care of builder. Stone, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, plumbing. Contract awarded to Albert E. Dunlap, 7223 Oak avenue.

Residence, West side Wayne avenue, North of Hortter street, $20,000. Architect, private plans. Owner, George W. Carson, 5601 Germantown avenue, Philadelphia. Stone, 1 and 3 stories, 26x41 feet, 12x9 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Carson Brothers, 5601 Germantown avenue.

Residences (5), Passyunk avenue, East of Holbrook street, and **Residence and Store,** Dicks avenue, East of Holbrook street, $37,000. Architect, private plans. Owner, Fred Furnival, Jr., 2700 South Seventh street, Philadelphia. Brick, 2 stories, 16x39 feet. **Store and Residence,** 2 stories, 28 feet 8 inches x 33 feet, slag roof, oak and pine floors, hot water heat. Contract awarded to George A. Furnival, 2409 South Twentieth street.

Residences (6), South side Abington avenue, East of Germantown avenue, $5,500 each. Architect, Robert Rhodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, H. H. Houston Estate, Chestnut Hill, Philadelphia. Brick, 2 stories, 16x32 feet, 11x9½ feet, slate roof, oak and pine floors, hot air heat, electric light. Contract awarded to Wolverton & Co., 222 East Willow Grove avenue.

Residence, North side Fulmer street, East of Bustleton avenue, $7,700. Architect, private plans. Owner, George M. Hogeland, Bustleton avenue, Philadelphia. Frame, 3 and 1 stories, 28x30 feet, 12x9 feet, shingle roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to Fesmire Brothers, Huntingdon Valley, Pa.

Residence (alts. and add.), 616 South Fifteenth street, $5,000. Architect, private plans. Owner, Dr. Thomas E. Miller, on premises. Brick, 3 stories, 14x30 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to S. H. Blythewood, 1709 Christian street.

Residence, North side Harmon road, West of Ridge avenue, $5,000. Architect, private plans. Owner, F. C. Mienecke, 5533 Ridge avenue, Philadelphia. Frame and stone, 2 stories, 27x27 feet, slate roof, hot water heat. Contract awarded to Arthur V. Turner, 1134 Filmore street.

Store and Apartments (alts.), 250-52 South Twelfth street. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Irwin King, care of architect. General alterations. Contract awarded to Albert Zellfelder, 1324 Walnut street.

Residence, 600 South Twelfth street, Philadelphia, $5,900. Architect, private plans. Owner, Joseph Krass, Twelfth and South streets, Philadelphia. Brick, 2 stories, 14x27 feet, 10x19 feet, slag roof, oak and pine floors, hot water heat, electric work, tile work.

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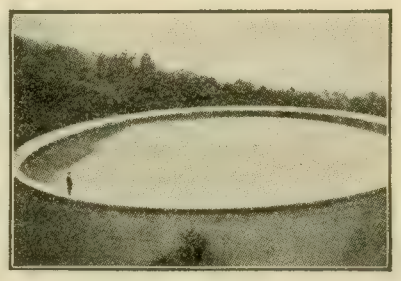
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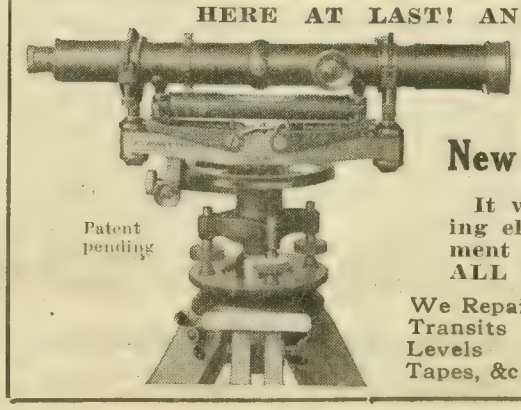
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Contract awarded to Marshall & Friedman, 2323 South Marshall street.

Storage, Southeast Corner D and Erie avenue, Philadelphia, $9,000. Architect, private plans. Owners, H. T. Potts & Co., 316 North Third street, Philadelphia. Iron, 1 story, irregular size, cement floors, electric work. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Residences (2), South side Cottman street, East of Bingham, $7,000. Architect, private plans. Owners, C. S. Shoemaker and H. Haslen, 430 Almond street, Philadelphia. Frame, 2 stories, 24x38 feet, shingle roof, oak and pine floors. Contract awarded to Neveling Brothers & Carver, 121 Sylvania avenue.

Residence, 7245 Lawndale street, Philadelphia, $4,500. Architect, private plans. Owner, H. Berroth, 4060 North Eighth street, Philadelphia. Brick, 2 stories, 20x27 feet, slag roof, oak and pine floors, hot water heat, electric work. Contract awarded to W. Robinson, 7319 Rising Sun avenue.

Residence and Store (add. and alts.), Southeast Corner Eighteenth and Dauphin streets, $4,500. Architect, private plans. Owner, D. Schwartz, 5716 Larchwood avenue, Philadelphia. Brick, 2 stories, 16x8 feet, slag roof, hot water heat, electric light. Contract awarded to Joseph Eskin, 4106 Westminster avenue.

Residence and Store, 7238 Woodland avenue, Philadelphia, $6,500. Architect, private plans. Owner, Isadore Pastor, on premises. Brick, 2 stories, 15x31 feet 9 inches, 12x28 feet 3 inches, hot water heat. Contract awarded to I. Kaplan, 3022 South Eighty-fourth street, Philadelphia.

Residence (alts. and add.), 5410 Lancaster avenue, Philadelphia, $4,000. Architect, John Charles Norton, Ardmore, Pa. Owner, R. M. Edsall, on premises. Brick, 2 story add., 14x21 feet, hot water heat, slag roof. Contract awarded to Bernard Gane, Bryn Mawr, Pa.

Bakery (add.), 1034-38 South Fifty-seventh street, $4,000. Architect, private plans. Owner, J. W. Patton, on premises. Brick, 2 stories, 19x45 feet, slag roof, cement floors. Contract awarded to A. F. Dear, 6016 Summer street, Philadelphia.

Residences (2), East side Vandyke, South of Cottman street, $3,000 each. Architect, private plans. Owner, John Listmann, 7240 Vandyke street, Philadelphia. Brick, 2 stories, 14x48 feet and 14x25 feet, 11x17 feet, slag roof, hot water heat, electric work. Contract awarded to Charles Bartberger, 1621 Brill street, Philadelphia.

Residence, North side Carpenter street, East of Wissahickon avenue. Architect, private plans. Owner, Samuel Emlen, Haines and Chew streets, Philadelphia. Brick, 2 stories, 25x40 feet, 16x12½ feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to I. A. Dunkelberger, 71 East Herman street.

Residence, East side Sixth street, North of Chelten avenue, $9,500. Architect, private plans . Owner, William M. Ferguson, 1210 Spring Garden street, Philadelphia. Brick, 3 and 1 stories, 26x30 feet, 15x9 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to W. J. Erwin, 3532 North Fifteenth street.

Stores (2), South side Ludlow street, East of Twenty1first street, $3,600 each. Architect, private plans. Owners, George M. Hynes & Bro., 8 North Twenty-first street, Philadelphia. Brick, 1 story, 31x19 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Edward Cunningham, 206 North Twenty-second street, Philadelphia.

Building, 1609 South Thirteenth street, Philadelphia, $5,000. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, Baptist Union, Seventeenth and Chestnut streets, Philadelphia. Brick, third story add., 16x5½ feet, 13x12 feet, slag roof, composition floors, iron work. Contract awarded to Thomas C. Trafford, 1613 Sansom street.

Apartment (add. and alts.), 3221 North Thirteenth street, Philadelphia, $7,600. Architect, private plans. Owner, Mrs. J. Brown, on premises. Brick, 1 story add., 8 feet 9 inches x 16 feet, slag roof, hot water heat, electric light. Contract awarded to Harry S. Barnes, 2080 East Willard street.

Store (alts.), 722 Chestnut street, $3,500. Architect, private plans. Owners, Rogers Silverware Co., 726 Chestnut street, Philadelphia. Carpentry, mill work, tile work, plate glass, metal bulks. Contract awarded to A. MacTavish, 1515 Pine street, Philadelphia.

Residence (alts.), 4000 Poplar street, Philadelphia, $3,200. Architect, private plans. Owner, H. Potamkin, 34 South Seventh street, Philadelphia. General interior alterations. Contract awarded to B. Shestack, 5829 Walnut street, Philadelphia.

Apartment (alts.), 4501 Chester avenue, Philadelphia, $3,000. Architect, Charles Schweiker, 33 North Filon street, Philadelphia. Owner, William M. Butler, on premises. Sun parlor, slag roof, oak floors, 23x12 feet. Contract awarded to George Kessler Cont. Co., Drexel Building.

Residence, West side State road, South of Grant avenue, $2,500. Architect, private plans. Owner, Joseph D. Rush, 800 Windsor Square, Philadelphia. Frame and stucco, 1 story, 26x32 feet, shingle roof, yellow pine floors, hot water heat. Contract awarded to John J. Keenan, 8300 Cottage street.

Residence and Store (alts.), 4348 Frankford avenue, $2,000. Architect, private plans. Owners, M. & S. Glickman, 4431 Paul street, Philadelphia. General interior alterations. Contract awarded to Tony Olivieri, 1518 Adams avenue, Philadelphia.

Residence and Store (alts.), Southwest Corner Felton and Jefferson, $2,000. Architect, private plans. Owner, Sidney Pemberton, on premises. General interior alterations. Contract awarded to J. D. Fisher, 5426 Thompson street.

Residence and Store (alts.), Southwest Corner Seventh and Race streets, $2,000. Architect, private plans. Owner, S. Hulsein, 12 North Seventh street, Philadelphia. Carpentry, mill work, plastering, painting, glazing. Contract awarded to B. Bornstein, 1319 Wingohocking street.

PENNSYLVANIA
Construction News

Apartments, Kirklyn, Pa. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Mrs. A. W. Adler, 4318 Market street, Philadelphia. Tapestry brick and architectural terra cotta, 2 stories, 55x100 feet, will contain 12 apartments, slag roof, hardwood floors, hot water heat, electric lighting, tile work, sheet metal work, (5) garages in basement, stone work and cement work. Architect and owner are taking sub-bids.

Sunday School and Parsonage, York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, Emmanuel Reformed Church, Rev. O. S. Hartman, 42 Freemont street, York, Pa. Brick, 2 stories and basement, 40x90 feet, composition roof, maple floors, steam heat, electric light, metal lath, skylights, roof ventilators. Owner taking sub-bids.

Theatre (alts. and add.), Mahanoy City, Pa. Architect, Benjamin Rush Stevens, 1737 Filbert street, Philadelphia. Owner, name withheld. Brick, steel and castone, 4 stories, 50x175 feet, electric lighting, tile work, cement work. Plans in progress. Architect will be ready for bids in two weeks.

Residence (alts.), Landrillo road, Cynwyd, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Stone and hollow tile, 2 stories, 20x25 feet, slag roof, hardwood floors, hot water heat, electric lighting, plumbing, tile work, general alterations. Plans in progress.

Residences (200), Roslyn, Pa. Architect, private plans. Owner, William Hammond, 2406 Spruce street, Philadelphia. Owner wants bid on excavating, cement foundations and sidewalks, masonry, plumbing, electric fixtures, plastering, painting and carpentry.

Hotel, Anzac Springs, Roslyn, Pa. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, William Hammond, 2406 Spruce street, Philadelphia. Brick, 6 stories, will contain 300 rooms, 150 baths, pine and oak floors, elevators, steam heat, electric light, tile and marble work. Plans in progress.

Bakery (add.), 622 North Eighth street, Reading, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owner, F. Bachmann, Reading, Pa. Brick, 2 stories, 40x40 feet, slag roof, concrete and pine floors, electric lighting. Plans in progress.

Residence (alts. and add.), Meyerstown, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, H. S. Davis, on premises. Brick, 2 stories, hardwood floors, tile work, general interior alterations. Plans in progress.

Store and Residence, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Stauffer Brothers, Spring City, Pa. Brick and stone, 3 stories, 26x50 feet, composition roof, concrete and wood floors, steam heat, electric light, refrigerators, ice machines, elevators, tracks and conveyers, bulks, ornamental iron work. Plans in progress.

School, Sinking Spring, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owners, Sinking Spring School Board, H. L. Fisher, secretary, Sinking Spring, Pa. Brick, cut stone, reinforced concrete, 3 stories, 78x108 feet, slag and slate roof, hardwood floors (heating, plumbing and electric work reserved), tile work, rolled steel skylights, bond, ornamental and structural iron work. Owner taking bids due June 12th.

Residence, Borbeck street, Rockledge, Montgomery County, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, Joseph P. Eckenrode, care of architect. Brick and shingle, 2½ stories, 30x40 feet, slate roof, hardwood floors, hot water heating. Architect is taking bids from local contractors.

Hospital (add.), Sunbury, Pa. Architect, William Rockefeller, 214 Market Square, Sunbury, Pa. Owner, Mary M. Packer Hospital, Sunbury, Pa. Brick, 3 stories, 56x37 feet, J-M roof, cement floors, hollow tile, metal lath, bond, iron work (heating, lighting, plumbing and compositioin floors reserved). Architect taking bids due June 12th.

Residence, Reading, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owner, Warren Adams, St. Lawrence, Pa. Brick, 2½ stories, 30x40 feet, slate roof,

hardwood floors, hot water heat, electric light. Architect taking bids due June 10th.

Residence and Garage, Swarthmore, Pa. Architects, G. Edwin Brumbaugh and William Pope Barney, Real Estate Trust Building, Philadelphia. Owner, Carl H. Chaffee, care of architects. Stone and steel, 2½ stories, 29x31 feet, wings 35x20 feet and 35x25 feet, garage, 1½ stories, 28x24 feet, slate roof, linoleum, linotile, cement and pine floors, metal lath, dampproofing, iron work, bond, tile and marble work (heating, lighting and plumbing reserved). Architects taking bids due June 8th.

Moving Picture Theatre, Port Carbon, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owners, I. O. O. F. Lodge, care of Charles Schneider, Port Carbon, Pa. Concrete, 3 stories, 50x100 feet, hardwood floors, electric light, tile and marble work, general alterations and additions. Owners ready for bids due June 14th.

Store (add.), 47 South Sixth street, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owners, Hangen's Music Store, 47 South Sixth street, Reading, Pa. Brick, 2 stories, 30x86 feet, composition roof, hardwood floors, steam heat, electric light, metal lath, steel sash, roof ventilators, plate glass. Architect ready for bids due June 10th.

High School, Conshohocken, Pa., $135,000. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Board of Education, Conshohocken, Pa. Construction of building (heating, plumbing and electric lighting separate bids). Owners taking bids due June 19th at noon.

Church, Mountainville, Allentown, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Trinity Memorial Lutheran Church, care of architects. Brick, 1 story and basement, 39x90 feet, slag roof, hardwood floors, vapor heat, electric light, hollow tile, structural metal work, dampproofing. Owners taking bids due June 9th at 6 P. M.

Residence, Glenside, Pa. Architects, Furness Evans, Inc., 315 South Fifteenth street, Philadelphia. Owner, William A. Penton, care of architect. Frame and stucco, 2½ stories, 41x24 feet, slate roof, cork, pine and woodoleum floors, hot water heating, electric lighting, iron work. Architect taking bids due June 10th.

Garage, Bleddyn road and Montgomery avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Dr. Ross J. Skillen, on premises. Tile, 1 story, 20x23 feet, cement floor, hot water heating. Architect taking bids.

Store Building, West Lancaster avenue, Ardmore, Pa., $10,000. Architect, John Charles Norton, Ardmore, Pa. Owner, William J. Armstrong, West Lancaster avenue, Ardmore, Pa. Brick and tile, 1 story, 30x75 feet, hot water heat. Architect taking bids.

Service Station (add.), Bustleton, Pa. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, John Barber, Bustleton, Pa. Brick, 1 story, 45x45 feet, slag roof, tile floors, plate glass, hot water heat, electric light, tile work, plate glass. Owner is ready for bids.

Apartment, St. Paul's road, Ardmore, Pa., $15,000. Architect, John Charles Norton, Ardmore, Pa. Owner, Albert J. Heath, Narberth, Pa. Hollow tile and plaster, 2½ stories, 28x52 feet, hot water heating. Ready for bids.

Bungalow, Grandview road, Ardmore, Pa., $4,500. Architect, John Charles Norton, Ardmore, Pa. Owner, John M. Green, Ardmore, Pa. Frame, 1½ stories, 24x40 feet, hot air heating. Owner ready for bids.

Bungalow, Ardmore Park, Pa., $10,000. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Tile, 1½ stories, 40x50 feet, hot water heat. Will be ready for bids in one week.

Residence, Bryn Mawr, Pa., $9,500. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Tile, 28x50 feet, hot water heating. Architect will be ready for bids in two weeks.

Store (alts. and add.), Lancaster and Anderson avenues, Ardmore, Pa., $20,000. Architect, John Charles Norton, Ardmore, Pa. Owner, Nathan Harrison, Ardmore, Pa. Brick and steel, 2 stories, 40x60 feet, hot water heat. Will be ready for bids in one week.

Residences (40), Ardmore, Pa., $60,000. Architect, John Charles Norton, Ardmore, Pa. Owners, Harry and Thomas Harrison, Ardmore, Pa. Brick, 2 stories, 16-foot fronts, hot water heating, slag roofing. Owners will take sub-bids.

Residence, St. Paul's road, Ardmore, Pa., $9,000. Architect, John Charles Norton, Ardmore, Pa. Owner, Spence Pippin, Grandview road, Ardmore, Pa. Tile, 2 stories, 28x42 feet, hot water heat, electric light. Architect taking bids.

Residence, Muhlenberg Township, Pa. Architect, Calvin Young, 226 North Sixth strete, Reading, Pa. Owner, Edward T. Kern, Masonic Temple, Reading, Pa. Brick, 2 stories, 35x27 feet, shingle roof, pine floors, hot water heat, electric light. Owner sub-letting.

Residence, Noble, Pa. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Thomas K. Ober, Jr., Crozier Building, Philadelphia. Hollow tile and stucco, 2½ stories, 30x35 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Store Building, County Line road and Lorraine avenue, Ardmore, $12,000. Architect, John Charles Norton, Ardmore, Pa. Owner, Casimiro Ramonto, Ardmore, Pa. Brick, 2 stories, 22x60 feet, hot water heating. Owner will build.

Masonic Temple, Danville, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Masonic Hall Association, Danville, Pa. Brick, cut stone and steel, 1 story, basement and balcony, 97x54 feet, asbestos asphalt roof, composition floors, roof ventilators, waterproofing, iron work, bond, kalamein doors, rolled steel sash, metal lath, steam heat, electric lighting. Architect taking bids due June 14th.

Addingham Bridge, between Springfield and Upper Darby Townships, over Darby Creek. Engineer, R. J. Aydlotte, County Engineer, Media, Pa. Owners, County Commissioners, Media, Delaware County, Pa. Highway plate girder encased in concrete, 72-foot clear span. Owners taking bids due June 13th at 11 A. M. (Daylight Saving Time).

Bridge, Upper Allen Township, Cumberland County, and Carroll Township, York County, over Yellow Breeches Creek. Owners, State Highway Department, Harrisburg, Pa. Reinforced concrete, 3 42-foot spans, 45 degrees skew, 24-foot roadway. Owners taking bids due June 27th. Certified check, $1,000.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Bids will be opened June 27th at 10 A. M. at Capitol Building, Harrisburg. Forms and specifications free. Plans, $2.50 per set.

Armstrong County, R-251, Parker City Borough, 6,067 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $2,000.

Bradford County, R-20, Troy and Columbia Townships, 11,215 feet. One course reinforced concrete. Certified check, $1,500.

Butler County, R-251, Bruin Borough and Parker Township, 13,917 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $2,000.

Cambria County, R-62, Cambria Township, 9,596 feet. One course reinforced concrete. Certified check, $1,500.

Cambria County, R-221, Elder and East Carroll Townships, 23,751 feet. Either vitrified brick or one course reinforced concrete and hillside vitrified brick. Certified check, $4,000.

Clarion County, R-237, North Bethlehem Borough, 2,510 feet. One course reinforced concrete. Certified check, $1,000.

Clarion County, R-214, Clarion and Monroe Townships, 12,815 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $2,000.

Crawford County, A-1867-1868, Cambridge and Rockdale Townships, 7,057 feet. One course reinforced concrete. Certified check, $1,500.

Indiana County, R-262, Greene, Grant and Montgomery Townships, 28,323 feet. One course reinforced concrete. Certified check, $4,000.

Jefferson County, R-338, Appli. 995-1009, Sykesville Borough and Winslow Township, 18,709 feet. One course reinforced concrete. Certified check, $3,500.

Lackawanna County, R-322, A-1632, Scott Township, 8,648 feet. One course reinforced concrete. Certified check, $1,500.

Luzerne County, R-4, Salem Township, Shickshinny Borough, 12,048 feet. One course reinforced concrete. Certified check, $2,000.

McKean County, R-100-101, Port Allegheny Borough and Liberty Township, 24,042 feet. One course reinforced concrete. Certified check, $4,000.

Montour County and Northumberland County, R-2, Point Township, Mahoning Township and Danville Borough, 15,659 feet. One course reinforced concrete. Certified check, $3,500.

Susquehanna County, R-174, Harford Township, 20,057 feet. One course reinforced concrete. Certified check, $4,000.

Road Work, Pennsylvania. Bids due June 28th at 11 A. M.

Bradford County, R-20, South Creek Township, 25,122 feet. One course reinforced concrete. Certied check, $4,000.

Cambria County, R-54, Black Lick Township, 21,044 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $4,000.

Clarion County, R-214, Brady Township, 9,538. One course reinforced concrete. Certified check, $1,500.

Clearfield County, R-234, A-1477, Irvona Borough, 7,118 feet. One course reinforced concrete. Certified check, $1,500.

Erie County, A-1880-1875, Leboeuf Townshsip and Mill Village Borough, 8,710 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $1,500.

Erie County, A-1872-1874, Washington Township and Edinboro Borough, 12,997 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $2,000.

Indiana County, R-228, Jacksonville Borough, White, Center, Black Lick and Young Townships, 39,082 feet. One course reinforced concrete. Certified check, $4,000.

Indiana County, R-228, Young Township, 27,632 feet. One course reinforced concrete. Certified check, $4,000.

Lackawanna County, R-365, A-1758, North Abington and Fenton Townships, 24,855 feet. One course reinforced concrete. Certified check, $4,000.

Lawrence County, R-79, Shenango and Slippery Rock Townships, 27,081 feet. One course reinforced concrete. Certified check, $4,000.

Susquehanna County, R-12, A-1857, Bridgewater and Dimock Townships, 22,171 feet. One course reinforced concrete. Certified check, $4,000.

Westmoreland County, A-281, Lower Burrell Township, 803 feet. One course reinforced concrete. Certied check, $1,000.

Bridge, Lower Allen Township, Cumberland

County, Pa., over P. and R. R. R. Owners, State Highway Department, Harrisburg, Pa. One span, plate girder, concrete floor. Owners taking bids due June 28th. Certified check, $1,500.

Pennsylvania Contracts Awarded

Residence, East York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. O wner, E. P. Minick, York, Pa. Tile and stucco, 2½ stories, 50x30 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded to I. Reindollar, York, Pa.

Nurses' Home (add.), State Hospital, Harrisburg, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owner, care of Dr. E. M. Green, superintendent, on premises. Brick, 1 story, 47x135 feet, slag roof, hardwood floors, hollow tile, electric light, metal lath, tile work, plumbing. Contract awarded to Charles H. Strayer, Lemoyne, Pa.

Factory, Twelfth street, Reading, Pa. Architect, Fred Muhlenberg, Liberty Bank Building, Reading, Pa. Owners, No-Equal Hosiery Co., Thirteenth and Muhlenberg streets, Reading. Reinforced concrete and steel, 1 and 2 stories, 210x85 feet, 40x85 feet, wood and concrete floors, vapor vacuum heating, electric lighting, metal lath, rolled steel sash, fire and kalamein doors. Contract awarded to Beard Const. Co., 658 Penn street, Reading.

Town Hall, Moving Picture Theatre and Fire Station, Richland, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, Neptune Fire Co., care of J. A. Fisher, secretary, on premises. Brick, 2 stories, 50x125 feet, asbestos slate roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath. Contract awarded to Rapp-Reber Const. Co., Lebanon, Pa.

Bungalow, Abington, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, James P. Paxton, 5542 Malcolm street, Philadelphia. Frame and stucco, 1 story, 36¾x29¾ feet, 19½x14¾ feet, asphalt slate surfaced shingle roof, pine and hardwood floors, hot water heat, electric light, tile work. Contract awarded to Roy Randall, Horsham, Pa.

Residence, Cynwyd, Pa. Architect, Stanford B. Lewis, 130 South Fifteenth street, Philadelphia. Owner, Mrs. E. J. Bondenweck, care of architect. Hollow tile and stucco, 2½ stories, 37x26 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile. Contract awarded to Merion Const. Co., 2313 Walnut street.

Cattle and Hog Pen, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Croninger Packing Co., Shamokin, Pa. Brick and concrete, 5 stories, 50x77 feet and 28x52 feet, built-up roof, concrete and maple floors, roof ventilators, waterproofing, iron work, bond, rolled steel sash, electric work. Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

Synagogue, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, B'Nail Israel Congregation, care of architect. Stone, brick and steel, 1 story, 30x70 feet, slate roof, steam heat, electric light, hardwood floors. Contract awarded to East End Lumber Co., Shamokin, Pa.

Residence, Cynwyd, Pa. Architect, Stanford B. Lewis, 130 South Fifteenth street, Philadelphia. Owner, Miss Dorothy Guthrie, care of architect. Hollow tile, brick and stucco, 2½ stories, 37x22 feet, slate roof, oak and pine floors, hot water heat, tile work. Contract awarded to Merion Const. Co., 2313 Walnut street.

Storage Building, Lansdowne avenue and State road, Lansdowne, Pa. Architect, private plans. Owners, Mason Scholes Co., Lansdowne, Pa. Reinforced concrete, slag roof, electric lighting. Contract awarded to Albert E. Dunlap, 7223 Oak avenue, Oak Lane, Philadelphia.

Twin Residences (2), Grandview road and St. Paul's road, Ardmore, Pa., $20,000. Architect, John Charles Norton, Ardmore, Pa. Owner, Spence Pippin, Grandview road, Ardmore, Pa. Tile, 2½ stories, 40x38 feet, hot water heat, electric light. Contract awarded to Mahlin & Brown, Ardmore, Pa.

Residence, Old York Road Hills, Pa. Architect, W. Ellsworth White, Glenside, Pa. Owner, William H. Kerr, Willow Grove, Pa. Brick, 2 stories, 29x32 feet, wing 8x22 feet, shingle roof, pine floors, hotw ater heat, electric light, tile work, bond. Contract awarded to Roy Randall, Horsham, Pa.

Residence, Sutton avenue, Ardmore, Pa., $8,000. Architect, John Charles Norton, Ardmore, Pa. Owner, Rudolph Lawser, 318 Cricket avenue, Ardmore, Pa. Frame and stucco, 2½ stories, 26x40 feet, hot water heating. Contract awarded to John Weaver, Clifford avenue, Ardmore.

Residence, Strafford, Pa., $7,500. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick, 2 stories, 24x30 feet, hot air heating. Contract awarded to Tony White Co., Simpson road ,Ardmore.

Bungalow, Simpson road, Ardmore, Pa., $4,500. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Frame and brick, 1½ stories, 26x38 feet, hot air heating. Contract awarded to Tony White Co., Simpson road, Ardmore.

Store and Storage Building, Lancaster avenue, Ardmore, Pa., $15,000. Architect, John Charles Norton, Ardmore, Pa. Owner, Thomas Harrison, Ardmore, Pa. Brick and steel, 2 stories, 30x70 feet, hot water heat, electric light, slag roof. Contract awarded to Bernard Gane, Bryn Mawr, Pa.

Garage, Bryn Mawr, Pa., $2,500. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Hollow tile, 1 story, 20x23 feet, cement floors, hot water heat. Contract awarded to Bernard Gane, Bryn Mawr, Pa.

New Jersey Construction News

School (add.), Hurfville, Washington Township, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, School Board of Washington Township, care of District Clerk of Hurfville, Hurfville, N. J. Frame, 2 stories, shingle roof, pine floors. Plans in progress.

School, Crosskeys, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, School Board, Washington Township, Gloucester County, care of District Clerk of Crosskeys, Crosskeys, N. J. Brick, 2 stories, pine floors, electric light. Plans in progress.

School, Grenlock, Washington Township, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, School Board of Washington Township, Gloucester County, care of District Clerk of Grenlock, Grenlock, N. J. Frame, 1 story, shingle roof, pine floors. Plans in progress.

Residence, Jersey City, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Mrs. J. Conrad, 1906 Boulevard, Jersey City, N. J. Brick, 2 stories, 19x42 feet, copper shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner is taking bids.

Residence, Hanover and Camden streets, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, H. W. Reynolds, State street, Trenton, N. J. Brick, 3 stories, 19x72 feet 3 inches, slate and tin roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids due June 16th.

Stores and Apartments, Maple and Poplar streets, Merchantville, N. J. Architect, J. W. Platt, 1627 Sansom street, Philadelphia. Owner, George P. Dykman, Merchantville, N. J. Brick and concrete block, 2 stories, 40x48 feet, electric lighting. Owner is ready for bids.

Apartment Houses (4), Vermont and French streets, Atlantic City, N. J. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owner, F. X. Murphy, Allegheny and Kensington avenues, Philadelphia. Brick, 2 stories, 64x45 feet, slag roof, pine floors, hot water heat, electric light, tile work. Plans completed. Owner ready for bids.

Newcomb Hospital, Vineland, N. J. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Newcomb Hospital, Vineland, N. J. Brick, concrete, stone and steel, 2 and 3 stories and basement, 175x60 feet, cement floors, metal lath, waterproofing, iron work, bond, rolled steel skylights, tile, marble and terrazzo (plumbing, electric light, heating, elevators and dampproofing reserved), metal lumber. Architects taking bids due June 14th at noon.

Double Residence, Twenty-seventh and Stevens streets, Camden, N. J. Architect, Arthur B. Gill, Law Building, Camden, N. J. Owner, Mr. Ross, care of architect. Hollow tile and stucco, 2½ stories, 32x43 feet, slag roof, hardwood floors, hot water heat, electric light. Architect taking bids due June 10th.

School (add.), Gibbstown, N. J. Architect, Frank F. Sanders, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, Township of Greenwich, Gloucester County, N. J., care of Joseph Harbeson, Gibbstown, N. J. Stone, 2 stories, 87x108 feet, composition roof, maple floors, metal lath, iron work, hollow metal skylights. Owners taking bids due June 8th at 7.30 P. M.

Residence, Elizabeth, N. J. Architect, Donald M. Kirkpatrick, Otis Building, Philadelphia. Owner, H. S. Young, care of architect. Hollow tile, stucco and frame, 2½ stories, 49x28 feet, shingle roof, oak and pine floors, warm air heat, electric light, tile work. Architect taking bids.

Pumping Cistern, Pitman, N. J. Engineers, Remington & Vosbury, 601 Market street, Camden, N. J. Owners, Borough of Pitman, care of Council of the Borough, Borough Hall, Pitman, N. J., J. E. Peterson, clerk. Concrete pumping cistern. Owners taking bids due June 12th at 8 P. M. Deposit of $5.00. Refund, $5.00.

Road Work, Freehold, N. J. Engineer, George K. Allen, Jr., County Engineer, Red Bank, N. J. Owners, Board of Chosen Freeholders, County of Monmouth, N. J. Concrete, 8,845 square yards. Owners taking bids due June 21st.

New Jersey Contracts Awarded

Bank Building (alts. and add.), Third and Market streets, Camden, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, West Jersey Title & Trust Co., Camden, N. J. Brick and steel, 2 stories, 53x80 feet, slag roof, cement and pine floors, roof centilators, metal window guards, metal ceilings, waterproofing, iron work and stairs, bond, hollow metal doors and sash, tile, marble and terrazzo, electric lighting, metal lath.

Contract awarded to J. W. Draper, 436 Haddon avenue, Camden, N. J.

Store and Apartment, Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Senator J. F. Wallworth, Tanner street, Haddonfield. Brick and cinder block, 2 stories, 40x56 feet, slag roof, pine floors, steam heat, electric light. Contract awarded to Lewis P. Day, Haddonfield, N. J.

Miscellaneous Construction News

Bank, Middleton, Md. Architect, Edward Leber, Hay Building, York, Pa. Owners, Valley Savings Bank, Middleton, Md. Brick, granite or marble front, 1 story, 40x75 feet, slate roof, hardwood floors, electric light, tile and marble work, bank fixtures. Preliminary plans in progress.

Fire House, Newark, Delaware. Architect, C. E. Hope, Dupont Building, Wilmington, Del. Owners, Aetna Hose, Hook and Ladder Co., Newark, Del. Stone, 2 stories and basement, 72x37 feet, slate roof, reinforced concrete and composition floors, hot water heat, electric light, roof ventilators, metal ceilings, ornamental iron work. Contract awarded to J. Clifford Willis, Newark, Del.

(Continued from Page 360)

ancial interests—is epochal in American industry. It deserves, and promises to have, the full support of the entire industry. A full representation at the organizing meeting will be the best testimony to the country of the solidarity of construction interests in the new movement.

Full details of the plan are set forth in a comprehensive pamphlet, procurable from the temporary office, 1053 Munsey Building, Washington, D. C. The meeting will be held in the Washington Hotel. Mr. Hoover will preside.

TRADE SCHOOLS FOR SAN FRANCISCO

BY H. WARREN MCBRYDE

President, Industrial Association of San Francisco

For years the building industry of San Francisco as well as of every large city in the United States has been handicapped severely by the serious and growing shortage of skilled craftsmen—particularly plasterers, plumbers, bricklayers, tile-setters, steamfitters, sheet-metal workers and finish carpenters. This, despite the fact that in these crafts wages have increased steadily and working conditions have improved constantly.

Why, then, has the shortage occurred? One reason, of course, is that wartime high wages for unskilled work attracted many boys and young men. But the main reason is that union labor regulations have prohibited apprentices; in some cases entirely and in all cases almost entirely, in order to keep the union ranks so depleted that wages would be artificially kept up.

Not only has this produced great waste and inefficiency, but it likewise has contributed in a large way to the increased cost of building. Facing a constant shortage of craftsmen, contractors virtually have been forced to big against each other for their services—the bidding taking the form of officers of increased wages. Thus we find that in many cities certain craftsmen have been regularly receiving from fifty cents to two and three dollars above the union or other prescribed wage scale. This procedure has not created more journeymen to meet the needs of the situation. It has only meant substantially increased costs—which the contractors have transferred to the building public.

A further evil effect of the regulations prohibiting apprentices, has been to prevent thousands of boys and young men learning a trade. Literally thousands of American boys who, for economic or other good reasons, could not secure a college education, would have learned some useful trade but for the apprentice-prohibiting regulations of the unions.

Such conditions obtained in San Francisco for many years. They would prevail now but for the work done (and to continue) by the Industrial Association of San Francisco. As soon as the American Plan had been established in San Francisco, and an equitable wage scale had been fixed by the Impartial Wage Board (created by the Industrial Association) the Industrial Association gave its prompt attention to the matter of training apprentices. An arrangement was made whereby a group of boys and young men desirous of learning the plumbing trade was admitted to a special department of the city's evening high schools, and there received instruction in such subjects as sanitation, mechanical drawing, plan-reading, etc. It was found, however, that to relieve the acute shortage of plumbers, this method was too slow. Accordingly, within the next two weeks the Industrial Association—cooperating with the Master Plumbers Association—will open a special school for the training of plumbers' apprentices. It will be equipped with a work-room and a full complement of plumbing tools and supplies; and will be in charge of a thoroughly experienced master plumber. The instruction will cover education in the fundamental materials used in the plumbing business, and in local sanitary ordinances and requirements. The practical training will include caulking of joints, threading, tapping, reaming and pipe-cutting; the actual piping of a model house and the erection of fixtures such as basins, bath-tubs, toilets, sinks, wash-trays, etc. The instruction and training will be carried on in the school eight hours a day, five and one-half days a week, for a minimum of eight weeks, and possibly longer. Then those who have taken the training will be hired by master plumbers and put at once on jobs as apprentice-helpers. A committee of master plumbers will pass on the mechanical qualifications (i. e., the apparent adaptability to the plumbing trade) of all applicants for admission to the school. Also, no applicant will be accepted who does not measure up to a certain mental standard. It is believed that by virtue of this careful selection, and through employment of the intensive methods described, competent journeyman plumbers can be trained in a year—a saving of three years over the old method.

The Industrial Association's school for plasterers is already in operation and is a splendid success. The training of the first class (every member of which was required to meet a certain mental standard, as well as to possess good physical qualifications) is well under way. Under the direction of a thoroughly experienced master plasterer, it will continue, eight hours a day, five and one-half days a week, for twelve weeks. At the expiration of that time the members of the class will have a rudimentary knowledge of plastering. They will be placed on jobs at once, and with a year's experience will become full-fledged journeymen plasterers.

The Industrial Association also expects to open schools for apprentices in other crafts (metal-lathers, tile-setters, bricklayers, etc.,) in the order of the crafts in which the most acute shortage exists, so that an adequate number of competent journeymen may be secured. In all cases the applicants for admission to these schools will be carefully selected and their number so limited as to conform to the actual needs of the community. In this manner the Association expects to be able to protect the public and the crafts against the incompetency and disorder that would result if there was no selection of the personnel, or limitation of the number, of apprentices. And by establishing these schools, it expects thereby to give encouragement to the American boy who desires to learn a useful trade, and to insure permanent relief in San Francisco from the shortage of skilled workers in the various crafts.

SOME HINTS ON PAINT MIXING

BY E. O. JOHNSON, *National Lead Co.*

A few weeks ago, while in one of lower Broadway's finest office buildings, some redecorating was going on in the big foyer and I stopped to chat with one of the men on the job.

As I stood there, my painter acquaintance removed the lid from a can of paint and started to stir.

"What are you doing?" I asked in

amazement. "Can you mix up that paint that way?"

"Why, that's the way I always do," was the indifferent reply.

A week later, when I talked with the superintendent of the building, he pointed out to me the shiny spots here and there on that wall and I told him how the paint had been stirred up. The superintendent knew a good deal about painting himself and I didn't have to tell him that the oil should have been poured off and mixed a little at a time into the paint which had settled; "boxing" the paint from one receptacle to the other and using every precaution to get a uniform and homogeneous mixture of paint and oil.

Should Have Been Thinned

Not long after the incident just related, I stood watching a workman mixing paint for the window sashes of the new Cunard building a little further down the street. He had some light green paint and he had to match it to a darker green. He took a can of paste lampblack and dumped it in and began to stir. He pulled his paddle out of the paint and looked at it. The paint on it didn't show much change so, in went some more lampblack. Still the same result. The painter didn't stop to think that the black was lighter in weight than the green and so stayed at the top of the mitxure, adding little depth to the tone—also probably in comparatively large particles.

Straining the paint would probably have mixed the color in, but it would have left it a different shade than the painter figured on. If he had thinned his color with some turps before putting it on the paints, the black would have mixed in and straining it would not have changed the shade from that desired.

Now these two instances may seem surprising, because painters are supposed to know how to mix paint as well as apply it. Some of them do. Some of them, however, do not even know how to properly stir up a prepared paint. I think that if I were a building superintendent or a boss painter, I'd give every painter in my employ a little course of lessons to be sure he understood the fundamentals.

Tricks to all Trades

There are "tricks of the trade" for mixed paint and others for thining paste to painting consistency.

Keg white-lead is a fairly heavy paste and the first thing that must be done therefore is to thin it with more of the pure linseed oil which has already been used to transform it from a powder to a paste.

Let us suppose that we have a hundred pounds of white-lead and we want to add to it two gallons of oil and two gallons of turpentine. If we should mix the oil and turpentine and then put the entire hundred pounds of paste in and try to stir it up in that quantity we would find that the paste would probably remain in lumps; stir as we would, it would not mix properly with the liquid.

Consequently, as every painter knows, we first pour into a receptacle a very little of the oil and then put in the paste white-lead. With a strong wooden paddle stir and mix, thus working the paste lead and the oil together. A small quantity of oil added in this way softens the paste somewhat and when it has been thoroughly mixed and made uniform throughout we add a little more oil and stir again. We keep on adding oil a little at a time until the paste is sufficiently fluid to be easily stirred, but still is like a thin paste similar to colors in oil and not thin like a paint ready for application.

Color Tints

If any tinting color is to be added, thin the tinting color to about the same consistency as the semi-paste described above by adding oil or turpentine as required and adding to the white-lead a little at a time, stirring each application in thoroughly. Different makes of colors differ in tinting strength, and if we were to add all the color at one time we might get our mixture too deep. It is far better to add a little at a time, bringing it up to the color gradually. If this is done a perfect match is not difficult. A good scheme is to dip out from the white mass a small quantity before adding the colors to be used to lighten the tint in case too much color has been added. This will save making too much paint.

Adding Drier

A favored practice is to add the drier next. As it is very essential that this be well mixed through the paste, the method used should be as in the case of the oil and colors—that is, a little at a time, each lot being well stirred in. After the drier has been added then add the turpentine by the same methods as already described. Bear in mind that drier acts only on oil and should be proportioned to the oil—not to the total volume of the paint, nor even to the volume of the oil and turpentine.

To test the color spread a drop of the mitxure on a piece of clean glass, turn the glass over and look at the paint through the glass. The side of the paint film that is in contact with the glass will be perfectly smooth and may therefore be easily compared with another batch of paint by spreading a drop of the second batch alongside the sample from the first lot. The slightest difference between the two will be shown up by this method.

Paint is always improved by being allowed to stand a day before using. It should always be strained through a cheese cloth or a fine sieve shortly before it is needed for the job. This process eliminates the paint skins as well as any paint lumps or dirt that may have gotten into the mixture, and it also adds the final touch to a perfect job of mixing.

A good painter will follow these methods as a matter of habit. Good mixing is the foundation of any good paint job. Good work is impossible without good mixing. Keep in mind that turpentine is a thinner and evaporates—and that one quart of it in a batch of paint will thin the mixture about as much as two quarts of oil.

Turpentine Has Two Uses

Turpentine in paint has two uses. First, it penetrates the pores of the wood or plaster much better than does the linseed oil and thus enables more of the pigment to be carried into the pores of the surface. That is why some turpentine is nearly always used in priming coats. Second, it is frequently desirable to have more pigment in a paint film than would be obtained in a workable mixture in which the only vehicle was the linseed oil. Turpentine serves as a very handy agent in this case because after the paint has been applied the turpentine evaporates out and leaves on the wall the desired proportion of pigment and oil.

—*Architect and Engineer.*

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR HARDENER.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HARDWOOD FLOORS.
Geiger, A. F..S. E. Cor. Felton and Media Sts., Phila.

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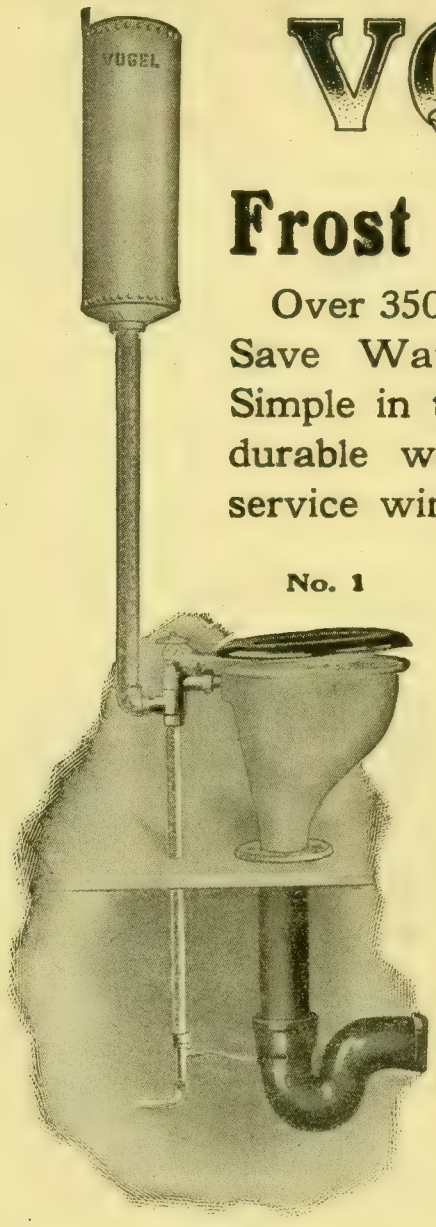
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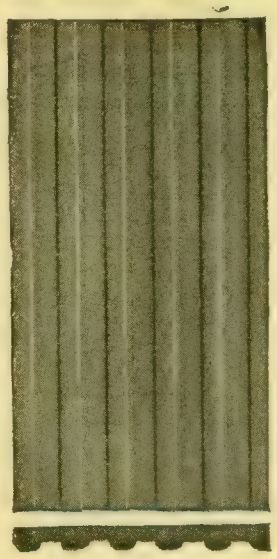
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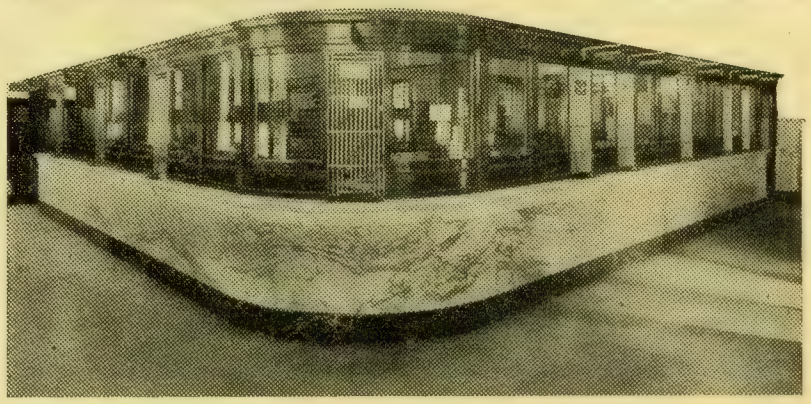
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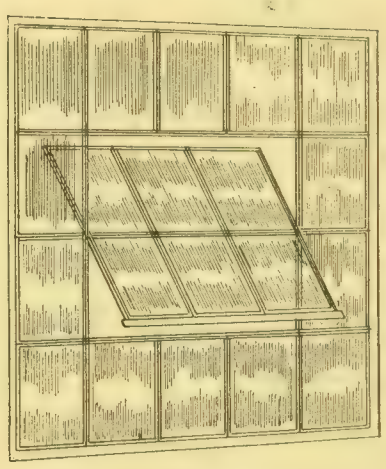
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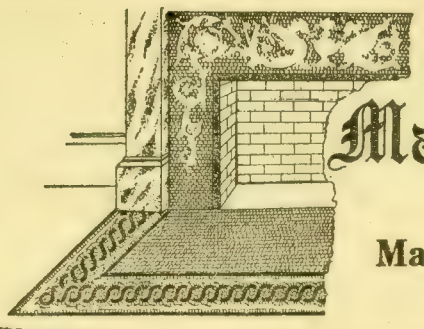
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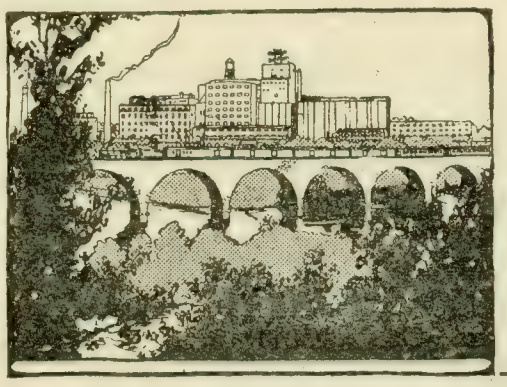
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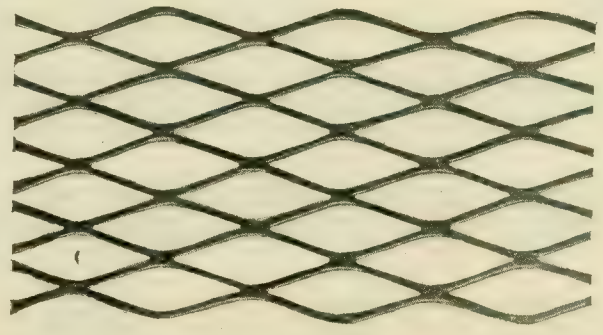
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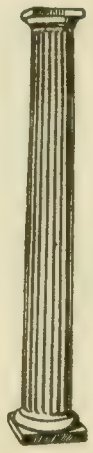
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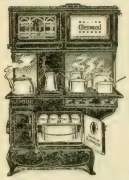
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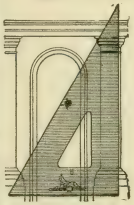
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 24

PHILADELPHIA
June 14, 1922

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As The Editor Sees It

STATISTICS FOR CONSTRUCTION

Index Reports Proposed as Prototype for National and International Service

SUBMITTED BY AMERICAN SECTION COMMITTEE ON CONSTRUCTION

*International Chamber of Commerce**

THE industrial and commercial world is just beginning to realize the importance of having in available form accurate statistical data and information concerning the principal industries of the world. The collection of data and the clear-cut analysis of national and international economic problems until recently have been haphazard and incomplete. All industries, and particularly the construction industry, realize the advantages to be gained by complete and accurate data.

There has never been a complete survey or analysis of the construction industry, which holds a close and interesting affiliation to the raw material markets of the world and has intimate association with an infinite number of the manufactured products. There is no doubt that through lack of authentic data and necessary information (which a careful study of such fundamentals as prices, market trends, stocks and materials available, transportation facilities, etc., could give), many of the industries whose products are used in construction have in the past suffered and are still suffering severely in their development.

World Survey Recommended

Accurate statistics will in the future prove to be the necessary foundation upon which all successful business will be built. It was with a realization of this that the American Section of the Committee on Construction ,at trehfiatsnnua eo?ldvb Construction, at the first annual meeting of the International Chamber of Commerce, in London, June 27 to July 1, 1921, offered the following resolution, which was adopted:

"WHEREAS, a Select Committee on Construction was appointed pursuant to the action of the Council on July 3, 1920, to study the proposition contained in the preambles and resolutions submitted by Mr. Willis H. Booth, relative to a study of the construction industry; and

"WHEREAS, that Select Committee has made a study of the matter thus submitted to it, the results of which study are set forth in Brochure No. 9, published by the International Chamber of Commerce, entitled "Construction," and

"WHEREAS, the Select Committee has referred the results of their study, as set forth in full in the said brochure, to the Production Group for examination and decision as to practical measures which should be taken in order that the International Chamber of Commerce may most effectively take action in the matter; and

"WHEREAS, the Production Group has examined the material thus submitted by the Select Committee on Construction and has also examined the program submitted by Mr. Noble Foster Hoggson and Col. John R. Wiggins, members from the United States of the Select Committee on Construction, as well as the memorandum submitted by the Italian members of the committee, all of which material is set forth in full in said Brochure No 9;

"Now, therefore, as a result of a study of the material and the recommendations thus submitted by the Production Group, this Congress commends and approves in general the program submitted by Mr. Noble Foster Hoggson and Col. John R. Wiggins and recommends that the Council take the following steps:

"1. Appoint a permanent committee to undertake a survey of the Construction Industry which shall proceed along the

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*Report of the American Section of the Committee on Construction appointed to undertake a survey of the construction industry, pursuant to a resolution adotped at the first annual meeting of the International Chamber of Commerce, in London, June 27-July 1, 1921.

Committee—Noble Foster Hoggson, New York, chairman; Col. John R. Wiggins, Philadelphia, Pa., and Col, F. W. Abbott, Paris, France.

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lines of collecting, collating and disseminating the vast amount of valuable data which is at present in the possession of such agencies as the British Engineering Standards Association; the Royal Institute of British Architects; the French Ministry of Commerce; the Office de Batiment in Paris; the International Bibliographical Institute of Brussels; the Advisory Committee of the American Federation of Labor; the National Federation of Construction Industries of the United States; the Associated General Contractors of America, and a number of similar agencies operating in different countries.

'2. Subject to the availability of funds which can be used for the purpose, provide a necessary staff for carrying out the work described above."

American Survey Begun

In line with the purpose expressed in this resolution, the American Section of the Committee on Construction has devised a plan to meet the requirements of the construction industry in America, and it is the hope and belief of the committee that the same plan with perhaps some modifications can be adopted to advantage in other countries.

If other member countries will put such a plan into operation and report to the headquarters of the International Chamber of Commerce, it will not be long before the hope of the Committee on Construction for a continuing survey will be realized.

It is very gratifying to be able to state that the Associated General Contractors of America, an organization representing 1,200 of the leading construction firms of the United States, has had the business foresight to see the value which the proposed Survey of Construction and Service Bureau will have for the construction industry in America, and beginning Oct., 1921, has put such a plan into operation. The first six month's work shows very satisfactory development and promise of increasing value and importance, not only to the constructors of the country but also to bankers, manufacturers, engineers, architects, technical schools, and editors.

Plan Applied to Construction

The Service Bureau is functioning in the following manner :

Functions of Service Bureau

a—Obtaining, assembling and correlating data of active interest to all branches of the construction industry.

b—Preparing and filing the original and analyzed data in convenient form for active use.

c—Studying interrelationships of such data and discovering their significance.

d—Presenting this data in graphic and tabular form with explanatory notes through weekly reports to those interested in construction in its various branches.

e—Acting as an information or service bureau for the construction industry, to furnish quickly special information as required by individuals.

Classes of Statistics Jresented

The principal classes of statistics which the bureau of the Associated General Contractors are collecting, follow:

Fundamental Construction Statistics

1—Materials of construction.
- a—Production
- b—Shipment
- c—Stocks
- d—Prices at mill
- e—Prices at point of consumption (Figures corrected occasionally showing resources by location and quantity)

2—Labor
- a—Number of people employed in the construction industry, by trades and locations
- b—Wages and hours
- c—Immigration and emigration
- d—Local labor agreement conditions

3—Products of Construction (By location and class of construction)
- a—Contracts let
- b—Building permits issued
- c—Value of contracts in progress
- d—Demand in near future

4—Transportation
- a—Cars in use
- b—Car shortage and surplus (by kind of car)
- c—Car loadings
- d—Ton miles
- e—Railroad earnings

5—Finance
- a—Interest rates
- b—Bank clearings and debits
- c—Bank deposits and reserves
- d—Exchange rates

6—Economics
- a—Wholesale and retail price indices
- b—Cost of living
- c—Stock market prices
- d—Ability to secure loans and charges for same
- e—Various indices of business activity as these affect construction

As far as practical this information is gathered regularly—weekly, monthly, or quarterly as the case may be—in order to interpret properly seasonal and local variations, note exceptions, and indicate trends.

Derived Statistics

On the basis of this and similar data, the bureau computes many derived statistics—some of them monthly, some quarterly or yearly, and some occasionally. Examples follow:
- a—Indices of construction costs for the country as a whole and for localities, subdivided into material costs and labor costs
- b—Production versus requirements.
- c—Costs to consumer versus production costs
- d—Effect of freight rates and costs
- e—Effect of immigration laws or labor supply
- f—Prospective adequacy of transportation facilities
- g—Prospective demands for construction (by kind and place)

Source of Data

The bureau utilizes to the fullest possible extent all existing agencies for the collection of data. It aims to be a collating and analyzing rather than a collecting agency. Existing sources fall into the following four classes:
- a—Governmental, Federal, State and Municipal
- b—Business publications
- c—Business associations
- d—Individual firms and corporation

Practical Value of Service

The practical value of the service of this bureau as it develops to individual firms interester in construction is unlimited. Not only may any firm interested in construction keep informed on the trend of prices, wages, costs, etc., in order to more intelligently size up their own individual problems, but actual service may be rendered in connection with such individual problems. Such service will require time and effort to perfect, but it is quite within reason to picture a central source of information on

(Continued on Page 388)


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Storehouse for Inflammables, Spec. 4670, Navy Yard, Philadelphia. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Removing and re-erecting building, corrugated iron, one story, 80x200 feet. Owners taking bids due June 20th.

Residence (alts. and add.) to Apartments, 6006 Chestnut street, $7,500. Architects, Durham Brothers, 1609 Sansom street. Owner, Thomas Mundy, on premises. Brick, 2 story add. front, 15x20 feet, rear 12x14 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, metal bulks, plate glass. Contract awarded to Joseph J. Williams, 2421 West Allegheny avenue.

Residence (alts. and add.) and Garage, 5205 Wayne avenue, $3,000. Architect, A. H. Savery, 1309 Locust street, Philadelphia. Owner, Alex. Tait, on premises. Brick and rough cast, 2 stories, 9x16 feet, metal roof, warm air heat, electric light, hardwood floors, garage, brick, 1 story, 55x22 feet, wing 20x15 feet, slag roof, cement floors, hot water heat, electric lighting. Owner will build.

Residence (add.) and Garage, 129 West Upsal street, $15,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, W. S. Ivins, on premises. Stone, 2 and 1 story, 45x12 feet and 39x23 feet, slate roof, oak and pine floors, cement work, hot water heat, electric light, tile work. Engineer will build.

Residences (25), Eighth and Louden streets, $4,500 each. Architect, private plans. Owners, W. Fischer & Son, Eighth and Rockland streets. Brick, 2 stories, 15x30 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owners will build.

Engine House and Machine Shop, Tacony and Church streets, $5,200. Architect, W. E. S. Dyer, Land Title Building. Owners, F. P. Woll & Co., on premises. Brick, 1 story, 28x44 feet, slag roof, concrete floors, structural steel roof, ventilators, iron work, floor hardener, bond, rolled steel sash. Engineer will build.

Professional Offices, 1614 Spruce street, Philadelphia. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owner, Dr. W. W. Fritz, 1600 Summer street, Philadelphia. Brick and steel, 2 stories, 72x18 feet, slag roof, oak floors, dumb waiter, bond, hollow metal sash and skylights, steam heat, electric light, metal lath, tile work. Architect taking bids due June 16th.

Street Work, Philadelphia, Pa. Engineer, private plans. Owners, City of Philadelphia, Department of Public Works, 216 City Hall, Philadelphiai. Owners taking bids due June 19th, 1922, at noon.

Grading Bouvier street, from Sixty-eighth avenue to Haines street, 984 cubic yards excavating; Sixty-fifth avenue, from Windsor street to Chester avenue, 1,619 cubic yards, and Stillman street, from Thompson street to Master street, 3,478 cubic yards excavating.

Paving following streets with asphalt and vitrified block gutters: Abington avenue, from Germantown avenue to Roanoke street, 1,408 square yards of asphalt, 272 cubic yards of concrete; "B" street, from Ruscomb street to Roosevelt Boulevard, 829 square yards of asphalt, 154 cubic yards of concrete; Bonsall street, from Wolf street to Passyunk avenue, 2,071 square yards of asphalt, 413 cubic yards of concrete; Godfrey avenue, from Twentieth to Twenty-first street, 3,754 square yards of asphalt and 704 cubic yards of concrete; Hope street, from Louden street to Rockland street, 790 square yards of asphalt, 168 cubic yards of concrete; Louden street, from Second street to Third street, 1,553 square yards of asphalt, 304 cubic yards of concrete; Opal street, from Sixty-sixth avenue to Sixty-seventh avenue, 1,388 square yards of asphalt, 269 cubic yards of concrete; Tower street, from Roxborough avenue to Jamestown street, 2,388 square yards of asphalt, 459 cubic yards of concrete; Water street, from Clearfield street to Lippincott street, 379 cubic yards of asphalt and 76 cubic yards of concrete; Woodland street, from Ardleigh street to Anderson street, 1,541 square yards of asphalt and 299 cubic yards of concrete.

Repaving with redressed granite blocks: Twenty-second street, from Wood street to Locust street, cutting and relaying 13,475 square yards of granite blocks and furnishing and laying 2,314 cubic yards of concrete.

Extension of Delaware avenue, from Manders street to Columbia avenue. This work comprises 8,140 cubic yards of grading, 4,677 cubic yards concrete, furnishing and laying 20,500 square yards of new granite blocks, constructing 19 inlets and furnishing 3,000 lineal feet of curbing.

Improving Banes street, from Pearson street to Fulmer street, and two other streets. Furnishing and laying the following materials: 4,550 square yards of 5 inches thick of crushed stone or slag, 4,550 square yards of bituminous macadam surface and 244 lineal feet of curbing.

Improving Mitchell Street, from Parker street to Cinnaminson street. 1,600 square yards of crushed stone and 1,600 square yards of bituminous macadam.

Improving Ontario street, from Balfour street to Bath street, with 1,200 square yards of crushed stone, 1,200 square yards of bituminous macadam, four inlets and 829 cubic yards of grading.

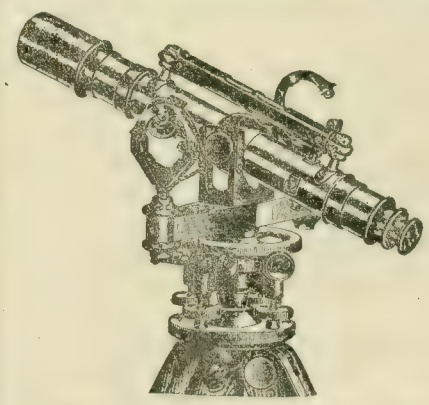
Improvement of Bensalem avenue consists of 2,050 square yards of cement pavement, 120 cubic yards of concrete, 1,870 lineal feet of concrete curbing, 1,870 4-inch terra cotta duct and 350 lineal feet of 2½-inch galvanized pipe.

Office Building, Broad and Pine streets, Philadelphia. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owners, Mastbaum Brothers & Fleischer, 1424 South Penn Square. Brick, steel and concrete, 10 stories. Preliminary plans in progress.

Church, Twelfth street and City Line, Philadelphia. Architect, Wesley Lesher Blithe, 608 Chestnut street, Philadelphia. Owners, Oak Lane Methodist Episcopal Church, John H. Hackenberg, 7099 Old York road, Philadelphia. Stone. Preliminary plans in progress.

Apartments (alts. and add.), Germantown and Chelten avenues. Architect, Benjamin Rush Stevens, 1737 Filbert street, Philadelphia. Owner, M. B. Kohn, on premises. Brick, 3 story rear 20-foot addition, slag roof, steam heating, electric lighting, general remodeling of entire old building. Plans in progress.

Church and Rectory, Fifth and Lindley avenue, Olney, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Roman Catholic Church of the Incarnation, care of Rev. Michael J. Brady, on premises. Stone, 60x160 feet, rectory, stone, 3 stories, 40x50 feet, slate roof, hard-



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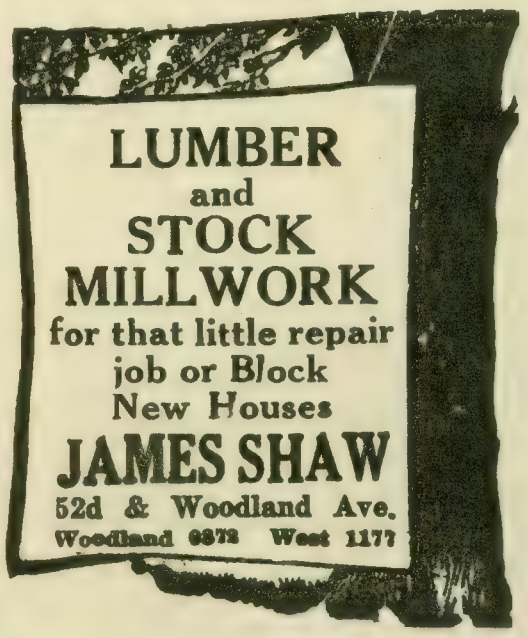
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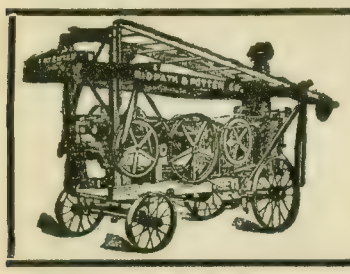
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wood and tile floors, steam heat, electric lighting, marble work. Plans in progress. Architect will be ready for bids in one month.

Residence (alts. and add.), 209 Rex avenue, Chestnut Hill. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Samuel Morris, on premises. General alterations and additions. Plans in progress.

Residence (alts. and add.), St. Martin's, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, F. Eugene Newbold, on premises. Stone, 2 stories, general alterations. Plans in progress.

Garage and Warehouse, 1328 South Twentieth street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Frank A. Dougherty, 1328 South Twentieth street. Brick, 2 stories, 40x35 feet, slag roof, cement and plank floors, electric lighting. Architect will be ready for bids in a few days.

Residences and Stores (2), 6221-23 Rising Sun avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Edward J. Simon, on premises. Tapestry brick and brick, 2 stories and basement, 20x44 feet each, slag roof, cement and pine floors, hot water heat, electric light, tile work, plate glass, steel work. Owner is taking bids.

Residence, Germantown, Philadelphia. Architect, J. L. Conarroe, 225 South Sydenham street, Philadelphia. Owner, Ansley H. Fox, Seventh and Grange streets, Philadelphia. Hollow tile and stucco, 2½ stories, 30x39 feet, tile roof, hardwood floors, hot water heat, electric lighting. Owner will be ready for bids in two weeks.

Maintenance and Repair Building, Southwest Corner Eleventh and Indiana avenue. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, J. Wilson Vandegrift, care of architect. Brick and steel, 2 stories and basement, 222x90 feet, slag roof, concrete floors, waterproofing, terra cotta tile, iron work, floor hardener, bond, hollow metal doors, rolled steel sash and skylights (heating, lighting, plumbing and elevators reserved). Architect taking bids due June 22nd.

Church (alts. and add.), Rockland and Mascher streets, Philadelphia. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owners, Tabor Evangelical Lutheran Church, on premises. Brick, stone and cut stone, 1 story, 36x27 feet, slate roof, pine floors, terra cotta, iron work, metal lath (heat and lighting reserved). Architect taking bids due June 19th.

Residences (26), Chew and Brinton streets, Germantown. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Germantown Real Estate Co., care of John S. Wurts, 1224 Land Title Building, Philadelphia. Brick, 2 stories, (18) 18x30 feet, (8) 15x30 feet, slag roof, hardwood floors, cement work, hot water heat, electric light, tile work, hollow metal skylights, garages in basement. Owners are ready for sub-bids.

Store and Apartments (alts.), 1304-06 West Tioga street, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, John A. Seib, 1304 West Tioga street. Brick, second story add., slag roof, hot water heating, electric lighting, hardwood floors, tile work, plumbing, plate glass. Architect is taking sub-bids.

Sales Room and Garage, 1344-46 Frankford avenue, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, Atterbury Truck Co., William Vees & Brothers, premises. Brick and steel, slow burning, 2 and 1 stories, 55x100 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Plans in progress. Will be ready for sub-bids in three weeks.

Residence, Springfield avenue and Crefelt street, St. Martin's. Architect, J. Warren Neff, 6045 Trinity Place, Philadelphia. Owner, Francis J. Rue, Wood Norton Apartments, Philadelphia. Hollow tile and plaster, 2½ stories, 41x26 feet and 24x13 feet, slate roof, oak and pine floors, hollow tile, iron work, hot water heat, electric light, tile and marble, iron work. Architect taking bids due June 17th.

Garage, 910-18 Spring street, Philadelphia. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel and concrete, 2 stories, 94x100 feet, steam heat, composition roof, electric lighting, cement and plank floors, cut stone. Architect taking bids due June 15th.

Contracts 20 and 20-A. Engineer, A. C. Shand, Broad Street Station, Philadelphia. Assistant engineer, E. B. Temple, 1729 Filbert street, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Furnishing and delivering girder rail and splices and girder iron and switch layouts and track appliances, for permanent tracks in Delaware avenue, between Snyder avenue and Bigler street. Engineer taking bids due June 20th at 10 A. M., S. T. Plans at assistant engineer's office.

Lombard Central Office Building (alts. and add.), 254 South Fourth street. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company, Seventeenth and Parkway. Concrete, carpentry, mill work, plumbing, heating, electric work, tile and marble work, plastering, bond. Architect taking bids due June 16th.

Operators' School (alts.), 406 Market street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company, Seventeenth and Parkway. Carpentry, mill work, heating, lighting, plumbing, hollow tile, plastering, bond. Architect taking bids due June 16th.

Residences (19), North side Price street, East of Chew, $103,600. Architect, private plans. Owners, Parker & Spaeth, 2012 East Chelten avenue, Philadelphia. Brick, 2 stories, 15x40 feet and 15x30 feet, 11x9 feet, slag roof, hot water heat. Owners will build.

Building (alts.), Northwest Corner Eighteenth and Market streets, $4,000. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets. Raising roof, carpentry, mill work, plastering. Contract awarded to Kober Const. Co., 34 South Seventeenth street.

Residences (10), East side Glenloch street, North of Tyson street, $4,000 each. Architect, private plans. Owner, E. Samuel Gercke, 3030 Tyson street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heat. Owner will build.

Residences and Stores (4), West side Fifth street, North of Wyoming, $25,000. Archi-

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tect, private plans. Owner, J. J. Schellenberg, 4645 North Fifth street, Philadelphia. Brick, 2 stories, 19½x74 feet and 17½x64 feet, slag roof, hot water heat, electric light. Owner will build.

Boiler House, Northeast Corner York and Emerald streets, $10,000. Architect, private plans. Owners, Firth & Foster, on premises. Brick, 1 story, 66x50 feet, slag roof, cement floors, steel sash, waterproofing. Engineers, Wilson, Ruff & Co., 1101 Franklin Trust Building, will build.

Residences (12), East side Park avenue, South of Chew street, $6,000 each. Architect, private plans. Owner, E. S. Radley, 5701 North Park aveue, Philadelphia. Brick, 2 stories, 20x44 feet, slag roof, hot water heat, electric light. Owner will build.

Residence and Store, 4403 Richmond street, Philadelphia, $5,500. Architect, private plans. Owner, Louis Ahlers, Jr., 4433 Salmon street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hot water heat, electric light. Owner will build.

Manufaturing Building, Northwest Corner Mascher and Glenwood avenue, $7,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owners, Montgomery Snow & Co., on premises. Brick, 1 story, 42x103 feet, slag roof. Owner will build.

Residences (10), South side Ellsworth street, East of Sixty-second street, $7,000 each. Architect, private plans. Owner, R. H. Pugh, 5713 Market street, Philadelphia. Brick, 2 stories, 16x54 feet, slag roof, hot water heat, electric lighting. Owner will build.

Residences (32), East and West side Twelfth street, North of Chew, $226,000. Architect, private plans. Owner, Daniel Crawford, Jr., 3904 Chestnut street, Philadelphia. Brick, 2 stories, 16x33 feet, 13x18 feet, and 3 stories, 20x52 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (8), 5615-29 North Sydenham street, Philadelphia, $5,100. Architect, private plans. Owner, William J. Baltz, Sixty-sixth and Lawnton avenue, Philadelphia. Brick, 2 stories, 16x31 feet, 13x13 feet and 16x45 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (2), West side Fillmore street, West of Leiper street, $4,500. Architect, private plans. Owner, George Edel, Hillcrest and Stenton avenues, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hot water heat. Owner will build.

Residences (4), East side Ditman street, North of Knorr, $3,500 each. Architect, private plans. Owner, Louis Laib, 6638 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x28 feet, 13x10 feet, slag roof, hot water heat. Owner will build.

Residences (2), North side Magee street, East of Rising Sun, $4,000 each. Owner, John Y. T. Adair, 6900 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x42 feet, hot water heat. Owner will build.

Garage, 419 East Ashmead street, Philadelphia, $2,000. Architect, private plans. Owner, Robert Haslam, 77 Garfield street, Philadelphia. Brick, 1 story, 50x15½ feet, slag roof, cement floors, electric lighting. Owner will build.

Residences (93), Stores (2), Garages (26), Worrell street, Lycoming avenue, Hunting Park avenue and O street, $286,500. Architect, private plans. Owners, Fishman & Ford, 2011 South Fifth street, Philadelphia. Brick, 2 stories, 16x32 feet, 13x10 feet, 15x33 feet, 12x10 feet, 16x26 feet, 15x43 feet, 16x30 feet, 16x45 feet, 15x26 feet, 8x10 feet, 16x38 feet, slag roof. Owners will build.

Residences (15), Diamond street, East of Fifty-fourth street, and Northeast and Northwest Corners, $116,500. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, H. Martin Maloney, 5401 Lebanon avenue, Philadelphia. Brick, 2 stories, 20x40 feet, slag roof, hot water heat, electric lighting. Owner will build.

Residences and Garages (6), South side Sedgwick avenue, West of Sherman, Southwest Corner Sedgwick and Sherman, and Southeast Corner Sedgwick and Hayward streets, $60,000. Architect, private plans. Owners, Carson Brothers, 5601 Germantown avenue, Philadelphia. Brick, 2 stories, 24x43 feet, 10x5 feet, slag roof, oak and pine floors. Owners will build.

Residence, Overbrook, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Edward Dixon, care of architects. Hollow tile and stucco, slate roof. Architects taking bids due June 20th at 4 P. M.

Inspection Shop (alts. and add.), Frankford avenue and Bridge street. Architect, private plans. Owners, P. R. T. Co., 710 Dauphin street, Philadelphia. Brick, terra cotta and steel, slag roof, concrete and maple floors, hardware, painting, glazing, rolled steel sash, kalamein doors, iron work. Rolling Stock and Buildings Department of Philadelphia Rapid Transit taking bids.

Steam Pipe and Concrete Trench, Spec. 4668, Navy Yard, Philadelphia. Architect, private plans. Owners, Bureau of Yards and Docks, Navy Department, Washington, D. C. Owners taking bids due June 21st. Deposit $10.00.

Garage, 1418 to 1428 Mellon street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Louis J. Kolb, Tenth and Reed streets, Philadelphia. Brick, 1 story, 71x60 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash, iron work. Architect taking bids.

Junior High School, Gates, Fontain street and Ridge avenue. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Lowest bidders: M. Melody & Son, 1322 Race street, Philadelphia, $663,333; F. M. Harris & Co., 1520 Parrish street, $689,300; electric, Walker & Kepler, 531 Chestnut street, $30,815; plumbing, S. Faith & Co., 2427 Pennsylvania avenue, $36,988; heating, William Early's Sons, 1216 Ridge avenue, $76,500.

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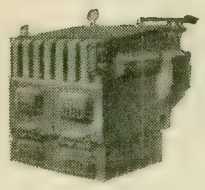
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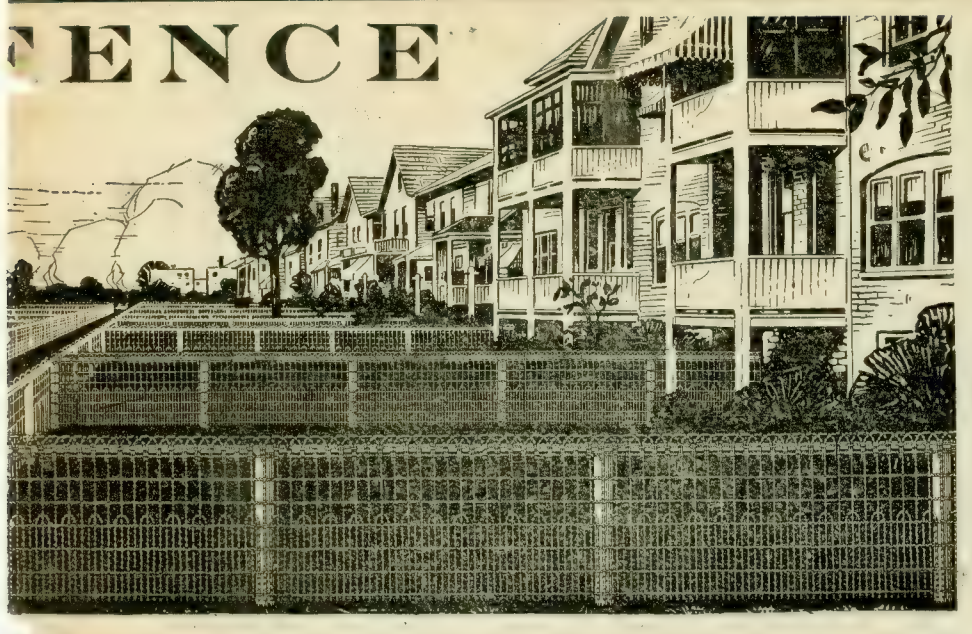
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$2,063; Drexel: F. H. Green, 1724 Sansom street, $2,207; Read: F. H. Green, 1724 Sansom street, $1,369; Hackett: Philadelphia Steam Heating, Juniper and Cherry, $2,017; Kane: Baird-Osterhout Co., 2109 Walnut street, $2,032; Welsh: F. H. Green, 1724 Sansom street, $2,171; Boker: Philadelphia Steam Heating Co., Juniper and Cherry, $2,221; Washington: F. H. Green, 1724 Sansom street, $1,665; Mantua: Philadelphia Steam Heating Co., Juniper and Cherry, $842; Sheridan: F. H. Green, 1724 Sansom street, $4,055. Painting—McClure: H. W. Ehringer & Co., 1237 Ridge avenue, $6,810; various (Specification No. 96): Hoober & Null, 43 South Seventeenth street, $2,700; Read: Harry B. Roth & Son, 601 Callowhill street, $4,600; South Philadelphia High: J. J. Murphy & Co., 1835 Ludlow street, $15,975; Blaine: Joseph McAlpine & Son, 1713 North Twenty-fourth street, $5,140; Kinsey: A. Beardsley & Son, 1217 North Eleventh street, $11,488; Bartram: O. B. Cannon, 5313 Greenway avenue, $1,067.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alts. and add.), 204 West Chelten avenue, $2,100. Architect, private plans. Owner, H. H. D. Balbine, on premises. Brick, 1 story, 7x6 feet, slag roof, pine floors. Contract awarded to Charles M. Russ, 29 West Rittenhouse street.

Residences (4), Ridge avenue and Shawmon street. Architect, private plans. Owner, H. W. Wanklin, 498 Ripka avenue. Brick, 2 stories, 16x46 feet and 16x52 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to G. H. Yarnall, 749 Manatawna avenue.

Residence (add.), 3335 North Fifth street, $2,000. Architect, private plans. Owner, Harry Barnes, on premises. Brick, 2 stories, 12x32 feet, slag roof, pine floors, electric light. Contract awarded to oConnor & Ley, 3621 North Fifth street.

Store and Dwelling, 24 Christian street, $2,000. Architect, private plans. Owner, G. Meiderska, on premises. Brick, 2 stories, 17x39 feet, slag roof, pine floors. Contract awarded to K. Zottowski, 3227 Edgemont street.

Boiler Room, 1762-64 North Mascher street, $2,000. Architect, private plans. Owner, R. B. Hutt, premises. Brick, 1 story, 32x62 feet, slag roof, cement floor. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Store, 2902 East Thompson street, $9,000. Architects, Lehigh Eng. Co., Sixth and Lehigh avenue. Owner, Caroline Peiffer, on premises. Two story add., brick, 22x40 feet, 22x27 feet and 22x11 feet, oak and pine floors, slag roof, steam heat, electric light, tile work, flush bulks. Contract awarded to William Guenst, 600 West Lehigh avenue.

Residence, 539 Carpenter street, Germantown, $6,000. Architect, private plans. Owner, Levi Cartinell, Johnson street, Germantown. Brick, 2 stories, 16x46 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to B. C. Lauer, Chalford, Pa.

Residence (alts. and add.), Forty-second and Viola streets, $7,200. Architect, private plans. Owner, M. Rosenbaum, on premises. Brick, 3 stories, 16x16 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to Harry Rubboff, 2421 North Natrona street.

Building (alts. and add.), 107-09 South Second street, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, M. B. Leventhal, on premises. Brick, front, 5 stories, plate glass, cement work, maple floors, metal ceilings, marble work (heating, lighting and plumbing and elevators reserved). Contract awarded to J. P. Collins, 5632 Walnut street.

Machine Shop, 1539-45 Wood street, Philadelphia. Architects, Ballinger & Co., Twelfth and Chestnut streets. Owners, Crawford & Co., on premises. Brick and steel, 1 story, 99x60 feet, slag roof, cement and maple floors, metal lath, iron work, floor hardener, bond, hollow metal skylights, rolled steel sash. Contract awarded to Sutton & Stephenson, 1317 Washington avenue, Philadelphia.

Convent, Twenty-fourth and Lehigh avenue, Philadelphia. Architects, Henry D. Dagit Sons & Co., 34 South Seventeenth st., Owners, St. Columba's Roman Catholic Church, care of Rev. Thomas J. Ryan, premises. Brick, cut stone and steel, 3 stories, 35x120 feet, slate roof, Carey flexible roof, oak, maple and composition flors, metal lath, ornamental iron work, floor hardener, tile and marble, steam heating, electric lighting, dumb waiter. Contract awarded to Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, Philadelphia.

New Bulks and Fire Tower, 125-27 South Thirteenth street, $12,000. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Millard's Dress Shop, on premises. Brick and steel, 4 stories, slag roof, oak floors, carpentry, mill work, plastering, painting, glazing, plate glass, cloisom-A floors, bond, hollow metal doors, marble work, metal lath, heating and lighting, repairs, plumbing. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Elevator Enclosures, Drexel Building, Philadelphia, $14,000. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Drexel Building, on premises. Metal lath, marble work, painting, plastering, metal work, glazing, concrete and cement work, electric work (doors separate bids). Contract awarded to H. H. Burrell, 206 South Quince street.

Residence, Rising Sun avenue and Geneva street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, J. Dirrmar ,care of builder. Brick and stucco, 2½ stories, 20x44 feet, slate roof, hardwood floors, plumbing, hot water heat, electric lighting, tile work. Contract awarded to D. Wittenberg, 3 North Nineteenth street, Philadelphia, who is taking sub-bids.

Residence and Garage, North side Westview street, North of Spring Bank, $62,500. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, Walter Biddle Saul, 4615 Pulaski avenue, Philadelphia. Stone, 3 stories, 43 feet 9 inches x 57 feet 3 inches, and 1 story, 19x33 feet 4 inches, slate roof, oak, yellow pine and cement floors, metal lath, hot water heat, electric light, tile work. Contract awarded to F. V. Warren, 132 South Seventeenth street, Philadelphia.

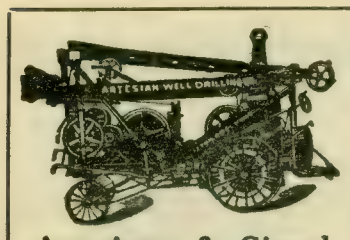
Reptile House (alts. and add.), Thirty-fourth and Girard avenue. Architect, A. H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Zoological Society of Pennsylvania, premises. Hollow tile, plaster and steel, 1 story, 38x41 feet, slate roof, cement and composition floors, waterproofing, iron work and stairs, rolled steel sash, metal lath, hot water heat. Contract awarded to J. S. Cornell & Son, Morris Building.

Club House, Twelfth street and Valley road, Oak Lane, Philadelphia. Architect, W. Ellis Groben, Oak Lane, Philadelphia. Owners, Review Club, care of Mrs. E. Clarence, Oak Lane, Philadelphia. Stone and plaster, 1 and 2 stories, 40x90 feet, slate roof, hardwood floors, hot water heat, electric lighting. Contract awarded to Herbert Conway, 5800 Walnut street.

Store, Club and Social Rooms, 3306-08 Germantown avenue. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Tioga Business Men's Association, 3533 Germantown avenue. Brick and steel, 2 stories. Contract awarded to Henry P. Schneider, 3713 Old York road.

Store (alts.), 6355 Market street, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Champion Incandescent Light Co., 235 Market street. Brick, steel and cement work, mill work, plastering, plumbing, painting, glazing, hardware, elevators, metal lath, tile and marble work, rolled steel doors, bond, iron work, heating alterations. Contract awarded to H. Seidman, 5009 B street, Philadelphia.

Store and Warehouse, 76 South street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, H. Johnson, on premises. Brick, steel and stone, 3 stories and basement, 20x115 feet, slag roof, cement floors, electric elevator, metal ceilings, flush bulks, rolled steel sash, metal lath, electric lighting (steam heat, first floor only).



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Contract awarded to Jacob Bender, 1817 South Fourth street.

Armory and Recreation Building, Corinthian and Girard avenues, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, on premises. Brick, concrete, cut stone, 2 stories, 308x145 feet, slag roof, concrete and mastic floors, waterproofing and dampproofing, bronze work, iron work, rolled steel skylights, tile and marble work, metal lath, electric light, steam heat. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Stores and Apartments, 1943-45 East Passyunk avenue, Philadelphia. Architect, Solomon Kaplan, 929 Chestnut street, Philadelphia. Owner, Samuel Stern, on premises. Brick and steel, 3 stories, slag roof, electric lighting, hot water heating, hardwood floors. Contract awarded to M. Agin, 2339 South Eleventh street, Philadelphia.

Store and Apartments, 519 South Fifth street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, J. Cohen, 517 South Fifth street, Philadelphia. Brick, 3 stories, 20x70 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, hollow metal skylights, cornice, flush bulks, plate glass. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

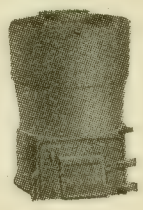
Building (interior alts.), Oxford and Glenwood avenue. Architect, private plans. Owners, Pierce, Butler & Pierce, Abbott Building, Philadelphia. Carpentry throughout building. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Residence (alts. and add.), 217 Rex avenue, Chestnut Hill. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, John F. Jenks, Jr., on premises. Brick, 2½-story add., hardwood floors, hot water heating, electric lighting, plumbing, general alterations. Contract awarded to Humphreys & Knorr, 243 South Fifty-third street.

Store and Manufacturing Building (add. and alts.), 2038 Locust street, $6,000. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, C. W. Cleveland, Witherspoon Building, Philadelphia. Marble front, skylights, steel sash, carpentry, mill work, iron work, steam heat, electric work. Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

Producer Room, 1221 Buttonwood street, Philadelphia. Architect, private plans. Owners, Tinius Olsen Testing Machine Co., 500 North Twelfth street. Brick, 4-ply slag roof, concrete floors, plastering, rolled steel sash, hollow metal skylights, iron work. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Residence, Oak Lane, Philadelphia. Architect, Wesley Lesher Blithe, 608 Chestnut



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street. Owner, E. Clarence Miller, care of architect. Stone, 2½ stories, 27x45 feet, slate roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to W. John Stevens, Inc., Wyncote, Pa.

Jefferson Theatre (alts. and add.), 2219 North Twenty-ninth street. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Green & Altman, 616 North Broad street, Philadelphia. Contract awarded to Kober Const. Co., 34 South Seventeenth street.

Store (alts.), 1017 Market street, Philadelphia, $4,000. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Hill & Co., on premises. Carpentry, mill work, oak floors, painting, glazing, metal ceilings, bond, tile work, metal bulks. Contract awarded to Pierce Henon Co., Juniper and Pine streets.

Garage, Sixteenth and Latimere streets, Philadelphia, $2,600. Architect, R. E. White, Pennsylvania Building, Philadelphia. Owner, T. Wallace Armstrong, care of architect. Brick, 1 story, 20x20 feet, slag roof, cement floor. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Stable (alts.) to Garage, Tenth and Norris streets, $3,500. Architect, Samuel Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading R. R. Co., Twelfth and Market streets, Philadelphia. Carpentry, mill work, painting, steel and iron plumbing. Contract awarded to E. H. Keefer & Son, 1321 Rodman street.

Residence, 1020 Upsal street, Philadelphia, $17,000. Architect, private plans. Owner, John A. Seeds, Upsal street, Philadelphia. Stone, 2½ stories, 30x25 feet, slate roof, oak and pine floros, hot water heat, electric light, tile and iron. Contract awarded to R. C. Borthwick, 8018 Germantown avenue.

Stores (4), East side Darrah street, North of Harrison, and Northeast Corner, $15,000. Architect, private plans. Owner, Charles Sweeney, 4846 Roosevelt Boulevard, Philadelphia. Brick, 1 story, 16x46 feet and 80x15 feet, slag roof, electric light. Contract awarded to A. E. Barnes & Co., 2044 East Clementine street.

Store and Storage (alts.), 831 South street, $11,000. Architect, private plans. Owner, Mr. Freud, 841 South street, Philadelphia. Carpentry, mill work, plastering, painting, glazing, tile work, hot water heat, electric light. Contract awarded to Jacob Bender, 1817 S. 4th street.

Building (add. and alts.), 2030-32 Ridge avenue, $8,500. Architect, private plans. Owner, Mrs. S. Schwartz, 2034 Ridge avenue, Philadelphiai. Brick, 2 stories, 22x18 feet, slag roof, oak and pine floors, hot water heat. Contract awarded to Harry Stass, 1809 North Seventh street, Philadelphia.

Residence, Southwest Corner Thirty-sixth and Sansom streets, Philadelphia, $12,000. Architect, Francis P. Canavan, 7032 Greenway avenue, Philadelphia. Owner, Stanley Addicks, 106 South Thirty-sixth street, Philadelphia. Brick, 2 stories, 20x64 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to France & Missar, 6725 Yocum street.

Residence, 2333 Fairmount avenue, Philadelphia, $6,895. Architect, private plans. Owner, John Smylki, 736 North Twenty-fourth street, Philadelphia. Brick, 3 stories, 16x30 feet, 14x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Leon M. Wajdyk, 516 McClelland street.

Residence and Store (alts. and add.), 1523 Fairmount avenue, $5,800. Architect, private plans. Owner, M. Isaacs, on premises. Brick, 1 story, irregular size, slag roof, electric light. Contract awarded to Frank A. Kaiser, 1522 South Sixth street, Philadelphia.

Residence (add.), 4119 Leidy avenue, Philadelphia, $4,000. Architect, private plans. Owner, M. Perlstein, on premises. Brick, 1 story, 12x12 feet, slag roof, electric work. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

Residence and Store (alts. and add.), 3218 Germantown avenue, $3,000. Architect, private plans. Owner, Ulysses Falcon, on premises. Brick, 1 story, 3x30 feet and 16x15 feet, slag roof, electric work. Contract awarded to H. P. Werner, 3254 Germantown avenue, Philadelphia.

Residence, East side Sixty-third street, South of Catharine street, $7,700. Architect, private plans. Owner, Maude Smith, 6052 Pine street, Philadelphia. Brick, 2 stories, 16x56 feet, slag roof, oak and pine floors, hot water heat, electric work, tile work. Contract awarded to John T. Sanders, 4411 Sansom street.

Garage (2), West side Weymouth street, North of Ontario, $6,000 each. Architect, private plans. Owner, Elmer Miller, 519 East Allegheny avenue, Philadelphiai. Brick, 1 story, 84x36 feet, slag roof, cement work, electric work. Contract awarded to A. Earl Barnes Co., 2044 East Clementine street.

Building (alts. and add.), North side Alter street, East of Broad, $4,000. Architect, private plans. Owner, John M. Duff, 1117 South Broad street, Philadelphia. Brick, 2 stories, 45x36 feet, 1 story, 45x22 feet, slag roof. Contract awarded to A. Donaldson, Jr., 108 West Gorgas street.

Garage, Southwest Corner Forty-fourth and Brown streets (rear), $2,500. Architect, private plans. Owner, C. Schnenemann, on premises. Brick, 1 story, 70x21 feet, slag roof, cement floors. Contract awarded to W. E. Janes, 3929 Market street, Philadelphia.

Residence and Store (alts. and add.), 5709 Chester avenue, $3,000. Architect, private plans. Owner, Jack Couff, 42 North Fifty-second street, Philadelphia. Brick, 1 story, 16x16 feet, slag roof, yellow pine floors. Contract awarded to F. C. Borel, Jr., 5425 Summer street.

Building (alts.), 3020-22 North Lawrence street, Philadelphia, $3,000. Architect, private plans. Owner, Frederick King, on premises. General interior alterations. Contract awarded to William Freiling, 2553 North Fifth street.

Residence, East side Bingham street, South of Cottman street, $4,400. Architect, private plans. Owner, Joseph Henz, Camden, N. J. Frame, 2 stories, 16x34 feet, electric light. Contract awarded to Harvey L. Miller, 7319 Palmetto street.

Building (alts. and add.), Southeast Corner Sixteenth and Dickinson streets, $3,000. Architect, private plans. Owner, A. Cichino, on premises. Brick, 2 stories, 14x16 feet, slag roof, yellow pine floors. Contract awarded to N. Ricci, 1824 South Sixteenth street, Philadelphia.

Residences (alts. and add.) (2), 4744 and 4748 North Eleventh street, $3,600 each. Architect, private plans. Owner, Hyman Ulitsky, 4753 North Eleventh street, Philadelphia. Brick, 1 story, 15x10 feet, 15x6 feet, slag roof, hot water heat. Contract awarded to Max Chipin, 1024 Rockland street.

Residence, West side Dorcas street, North of Cottman, $3,750. Architect, private plans. Owner, Ray C. Orth, Veree road, Philadelphia. Frame, 1 story, 26x42 feet, shingle roof, yellow pine floors. Contract awarded to Lawrence E. Bruffey, 3821 North Franklin street.

Residence (alts. and add.), 5856 Pentridge street, $5,000. Architect, private plans. Owner, Frank H. Dimki, on premises. Brick, 3 stories, 15x10 feet, 2 stories, 16x6 feet, and 1 story, 15x10 feet, slag roof, hot water heat, electric light. Contract awarded to R. C. Mitchell, 5854 Florence avenue, Philadelphia.

Factory (alts.), Master street, Philadelphia, $3,000. Architect, private plans. Owners, B. Bernheim & Sons Co., Third and Master streets, Philadelphia. Carpentry, mill work. Contract awarded to Joseph Cichiny, 10 South Eighteenth street, Philadelphia.

Residence and Store (add. and alts.), 1631 Susquehanna avenue, $2,800. Architect, private plans. Owner, William Passman, on premises. Brick, 1 story, 3½x17½ feet, slag roof, yellow pine floors. Contract awarded to J. Landau, 1806 North Seventh street, Philadelphia.

Building (alts.), 143-49 Dock street, Philadelphia, $5,000. Architect, private plans. Owner, Charles Peacock, 145 Dock street, Philadelphia. Carpentry, mill work, general alterations. Contract awarded to H. C. Dahl, 231 South Eighth street, Philadelphia.

Store and Storage, 716 Market street, Philadelphia, $2,000. Architect, private plans. Owners, Dobson Estate, 809 Chestnut street. General alterations. Contract awarded to S. Yellin, 3125 Montgomery avenue.

Residence and Store (add.), 2504-06 South Broad street, $2,000. Architect, private plans. Owner, A. Menni, 2506 South Broad street, Philadelphia. Brick, 1 story, 17x10 feet, slag roof, yellow pine floors. Contract awarded to Philip Pinto, 1319 Tasker street, Philadelphia.

Residence and Store (add. and alts.), 3128 Kensington avenue, $4,000. Architect, private plans. Owner, Mr. G. Schinger, on premises. Brick, second story add., 14x13 feet, slag rofo, oak and pine floors, hot water heat. Contract awarded to William Carr, 3550 Jasper street, Philadelphia.

Residence and Store (alts.), 2804 North Broad street, $3,000. Architect, private plans. Owner, H. Ricklin, 1838 Wallace street, Philadelphia. General interior alterations. Contract awarded to Jacob Bedner, 1817 South Fourth street, Philadelphia.

Residence and Store (alts.), 5212 Market street, Philadelphia, $2,500. Architect, private plans. Owner, Mrs. O. Jonas, 5216 Market street, Philadelphia. Carpentry, mill work, painting, glazing, plastering. Contract awarded to Joseph Cichiny, 508 Fuller Building, Philadelphia.

Branch Sewers, various locations, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Frank H. Caven, Director, City Hall, Philadelphia. The following contracts have been awarded for brick branch sewers:

Cornwall street, Jasper to Emerald, $2,168.45. Angelo J. Ellis, 5724 North Marshall street, Philadelphia.

Dickinson street, Delaware avenue to Front street, $2,103.54. Donato Delise, 4842 North Leithgow street, Philadelphia.

Dyre street, Akron street to Oakland street, $2,075.50. Emilio Pasuzzi, 601 Lincoln Building, Philadelphia.

Etting street, Allegheny avenue to Willard street, $3,140.60. Anthony A. Pastore, 5903 Woodland avenue.

Filbert street, Fifty-second street, westward, $1,540.25. Michael Mattia, 263 Simpson street, Philadelphia.

Fox street, Juniata street to Roberts avenue, $9,992.39. Emilio Pasuzzi, 601 Lincoln Building, Philadelphia.

Fifty-ninth street, Oxford street to Columbia avenue, $6,577. Fred J. Buckius, Jr., 4050 Kensington avenue, Philadelphia.

Keystone street, Howell to Comly street, $2,613.80. A. Di Sandio & Son, 3906 North Fifth street, Philadelphia.

Kingsessing avenue, Fifty-fifth to Fifty-sixth, $2,351.04. Donato Delise, 4842 North Leithgow street, Philadelphia.

Allengrove street, Castor road to Roosevelt Boulevard, $2,766.95. Fred T. Buckius, Jr., 4050 Kensington avenue.

Anderson street, Price to Haines streets, $4,969.50. Carmelo Ricciardi, 1226 South Juniper street, Philadelphia.

Arlington street, Fifty-second to Fifty-fourth, $9,841.08. Robert Higgins, 4642 Lancaster avenue, Philadelphia.

Berks street, Fifty-second to Fifty-fourth, $9,102.21. Robert Higgins, 4642 Lancaster avenue, Philadelphia.

Bonsall street, McKean street to Snyder avenue, $2,116.80, and Columbia avenue, Fifty-ninth to Lancaster avenue, $2,915.50. Anthony A. Pastore, 5903 Woodland avenue, Philadelphia.

Limekiln Pike, Andrews avenue to Walnut Lane, $6,482.50. Anthony A. Pastore, 5903 Woodland avenue, Philadelphia.

Luzerne street, Germantown avenue to Hunting Park avenue, $3,733.28. A. Di Sandio Son, 3906 North Fifth street, Philadelphia.

McCallum street, Ellet street to Mt. Pleasant avenue, $3,781.25. Anthony A. Pastore, 5903 Woodland avenue, Philadelphia.

Mitchell street, Markle to 169 feet Southeast, $952. Anthony A. Pastore, 5903 Woodland avenue, Philadelphia.

Norwood street, Snyder avenue to Jackson street, $2,137.30. Donato Delise, 4842 North Leithgow street, Philadelphia.

Point Breeze avenue, Mifflin street to 102 feet Northeast, $623.50. Fred Borelli, 6413 Callowhill street, Philadelphia.

Wissahickon avenue, Pleasant avenue to Sedgwick street, $24,841.90. Emilio Pasuzzi, 601 Lincoln Building, Philadelphia.

Pollard street, West of Front to Germantown avenue, $3,819. Anthony A. Pastore, 5903 Woodland avenue, Philadelphia.

Pratt street, Cottage to Jackson streets, $1,475.70. Fred T. Buckius, Jr., 4050 Kensington avenue, Philadelphia.

Price street, Chew to McMahon streets, $3,072.50. Contract awarded to Michael Mattia, 263 Simpson street.

Rittenhouse street, Ardleigh to Anderson, $6,457.60. Anthony Di Vito, 1721 South Hicks street, Philadelphia.

Rittenhouse street, Chew to Ardleigh, $37,797.55. Edward F. Bennis, 6416 East Chelten avenue, Philadelphia.

Roberts avenue, Schuyler to 280 feet Northeast, $12,163.80. Fred T. Buckius, Jr., 4050 Kensington avenue, Philadelphia.

Stafford street, Ardleigh to Anderson, $4,282.10. Contract awarded to Angelo J. Ellis, 5724 North Marshall street.

Sixty-fifth avenue, Limekiln Pike to Ogontz avenue, $4,681.50. A. Di Sandro & Son, 3906 North Fifth street, Philadelphia.

Sixty-sixth avenue, North of Wister street to Twenty-first street, $4,377.00. A. Di Sandro & Son, 3906 North Fifth street, Philadelphia.

Upland street, West of Seventy-first to Cobb's Creek, $2,733.15. Anthony A. Pastore, 5903 Woodland avenue, Philadelphia.

Wakeling street, Castor Road to Roosevelt Boulevard, $2,388.60. Fred T. Buckius, Jr., 4050 Kensington avenue, Philadelphia.

Washington Lane, Morton street to Ross street, $15,048. Anthony A. Pastore, 5903 Woodland avenue, Philadelphia.

Westview street, Wayne avenue to Sherman street, $6,254.50 David McMahon, Jr., Post Office Building, Germantown, Philadelphia.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

PENNSYLVANIA Construction News

Garage and Sales Show Room, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, I. H. Wetzel, Shamokin, Pa. Brick and steel frame, 2 stories, 80x100 feet. Plans in progress. Too early for details.

Residence, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, J. C. Glass, Shamokin, Pa. Brick and frame, 2½ stories. Plans in progress. Too early for details.

Nurses' Home (alts. and add.), Pottsville, Pa. Architect, Clarence E. Kendrick, Pottsville, Pa. Owners, Pottsville Hospital, Pottsville, Pa. Brick and cut stone, 3 stories, 38x29 feet, built-up roof, maple, cement and pine floors, metal lath, tile work, rolled steel sash, hollow metal doors, bond, iron stairs, ornamental iron work (heating, lighting and plumbing separate bids). Architect taking bids.

Store Building, 15 North Centre street, Pottsville, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owner, S. S. Weiss, Pottsville, Pa. Brick and cut stone, 3 stories, 90x28 feet, slag roof, maple floors, hollow tile, ornamental iron work, bond, kalamein doors, rolled steel sash, tile work, metal lath (heating, lighting and elevators reserved). Architect taking bids due June 19th.

Residences (6), Bryn Mawr, Pa., $24,000. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick, 2 stories, 16x40 feet, slag roof, pine floors, hollow tile, metal lath, tile work (electric work and hot air heat reserved). Architect will be ready for bids due in two weeks.

Bakery and Ice Cream Store, Ardmore, Pa., $15,000. Architect, J. C. Norton, Ardmore, Pa. Owner, George F. Kempen, 27 West Lancaster avenue, Ardmore, Pa. Brick and steel, 2 stories, 46x24 feet, slag roof, maple and concrete floors, roof ventilators, hot water heat, electric light, metal lath, ornamental iron work. Plans in progress.

School, Stewartstown, Pa. Architect, not yet selected. Owners, School Board, Stewartstown, Pa. Work contemplated.

School, Shippensburg, Pa. Architects, not yet selected. Owners, School Board, Shippensburg, Pa. Work contemplated.

Residence, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owner, Dr. J. A. Sherger, 1809 North Sixth street, Harrisburg. Stone, 2 stories. Sketches in progress.

City Stables, Twelfth and Foster streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, City of Harrisburg, Pa. Brick. Sketches in progress.

Office Building, Third street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, John Kelley, 3 North Third street, Harrisburg, Pa. Stone and brick, 3 stories, 20x60 feet, slag roof, composition floors, city heating, electric lighting, hollow tile, metal lath, tile and marble work, structural steel work. Preliminary sketches in progress.

Apartments (6), Harrisburg, Pa. Architects, Johnson & Starr, 9 North Second street, Harrisburg, Pa. Owner, Dr. Wright, 234 Woodbine avenue, Harrisburg, Pa. Brick, stone, 3 stories, 58x80 feet, slag roof, hardwood floors, electric light, tile work. Plans in progress.

Residence, Whitland street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, P. Ryder, care of architect. Stucco, 2½ stories, 40x32 feet, shsingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Maple avenue below Upland Terrace, Bala, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Roy H. Underdown, 114 Market street, Philadelphia. Stone, frame and stucco, 2½ stories, 56x27 feet, asphalt shingle roof, oak and pine floors, electric light, tile work and iron work. Revised plans in progress.

Elementary School, Mahanoy City, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Mahanoy Township School District, Frank B. Paterson, secretary, Mahanoy City, Pa. Brick and frame, 2 stories, 20 rooms. Plans in progress. Will be ready for bids in one month.

School, McConnellsburg, Pa. Architect, Ritchie Lawrie, 208 Kelker street, Harrisburg, Pa. Owners, School Board of McConnellsburg, Charles B. Stevens, secretary, McConnellsburg, Pa. Brick, 1 and 2 stories, 73x87 feet, slag roof, hardwood floors, electric light, roof ventilators, skylights. Architect will be ready for bids this week.

School (add.), Akron, Lancaster County, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Akron Borough School Board, C. B. Zwally, Akron, Pa. Brick, 2 stories, slag roof, yellow pine floors, electric light. Architect ready for bids.

Bank, Valley View, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Valley View National Bank, care of architect. Terra cotta, tile, 1 story, 32x65 feet, slate roof, marble floors, steam heat, electric light, tile and marble work, bank fixtures. Architect ready for bids.

School, Ambler, Pa. Architect, S. S. Conover, 11 South Sixteenth street, Philadelphia. Owners, School Board of Ambler, Philip Maas, secretary, Ambler, Pa. Brick and steel, 2 stories and basement, 72x172 feet, slag covered concrete roof, composition floors, water and dampproofing, iron work, bond, kalamein and hollow metal doors, hollow metal sash, electric lighting (heating and plumbing reserved). Owners are taking bids, due July 1st at noon. Plans may be obtained from office of architect on and after June 12th.

Store and Apartments and alts. and add. to 2 Stores, South Ardmore, Pa. Architect, private plans. Owner, Dr. R. C. Strodo, Ardmore, Pa. Brick, 2 stories and 1 additional story to 2 stores, 60x70 feet over all, slag roof, hardwood and pine floors, metal ceilings, plate glass, tile work, hot water heating, electric lighting. Owner taking bids, due as soon as possible.

High School (alts. and add.), Conshohocken, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School District of the borough of Conshohocken. Brick, cut stone and steel, 2 stories, balcony and basement, 53x120 feet, Carey built up roof, cement and maple floors, metal lath, hollow metal skylights, iron stairs, iron work (heating, plumbing, lighting and ventilating reserved). Owners taking bids, due June 19.

Manufactory and Garage, N. Penna. R. R. and Brookside avenue, Lower Gwynedd Township, Pa. Architect, private plans. Owner, James H. Grevell, 1126 South Eleventh street, Philadelphia. Lessee, American Chemical Paint Co., care of owner. Brick and steel, 2 and 1 stories, 80x96 feet and 32x16 feet, slag roof, pine and cement floors, rolled steel sash, bond, iron work. Owner taking bids, due June 17th.

Residence, Brookline, Pa. Architect, H. W.

Castor, Stephen Girard Building, Philadelphia. Owner, J. T. Moore, 430 North Thirty-fourth street, Philadelphia. Frame and stucco, 2½ stories, 40x31 feet, wing 13x10 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath, bond. Architect taking bids, due June 21st.

Church, Shippensburg, Pa. Architect, R. R. Markley, 9 North Market street, Harrisburg, Pa. Owners, Messiah U. B. Church, J. E. Gipple, on premises. Brick, steel, 1 story and basement, 85x172 feet, slate roof, hardwood floors, electric light, tile work, hollow tile, metal lath, skylights, roof ventilators, dampproofing. Owner taking bids, due June 30th.

High School (add.), Millersville, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Manor Township School Board, F. F. Brenne, Highville, Pa. Brick, 2 stories, 80x95 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved). Owners taking bids, due June 20th.

Church, Mowersville, Frankling County, Pa. Architect, R. R. Markley, 9 North Market square, Harrisburg, Pa. Owner, Olerbin I. B. Church, care of Carl Mundes, Newberry, Pa. Brick, 1 story, 45x60 feet, slate roof, yellow pine floors, steam heat, electric light, metal lath. Owner ready for bids, due June 30th.

Residence, Lebanon, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, E. A. Tackler, Elizabethtown, Pa. Brick, stone, 2½ stories, 40x65 feet, red tile roof, hardwood floors, hot water heat. Owner taking bids, due as soon as possible.

Residence and Garage, Race and President streets, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, J. M. Musser, 717 North Prince street, Lancaster, Pa. Hollow tile, stucco, 2½ and 1 stories, 46x65 feet and 30x20 feet, tile or slate roof, hardwood and concrete floors, hot water heat, electric light, tile work, plumbing. Architect taking bids, due as soon as possible.

Twin Residences (2), Cynwyd, Pa. Architect, J. Bedford Wooley, 1627 Sansom street, Philadelphia. Owner's name withheld. Frame and stucco, 2½ stories, 41x14 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Architect taking bids, due June 16th.

Residence, Chestnut Hill, Pa. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Leah A. Rau, care of architect. Stone, 2½ stories, 39x33 feet, shingle roof, oak and pine floors. Architect taking bids.

Residence, Penfield, Pa. Architect, W. K. Druham, 323 Walnut street, Philadelphia. Owner, Henry Sonneborn, Jr., 241 West Somerville avenue, Olney, Phila. Frame & stucco, 2 stories, 27x48 feet, shingle roof, oak, pine and composition floors, fireproofing, hot water heating, electric lighting, tile work. Architect ready for bids, due June 16th.

Twin Residence, Jenkintown, Pa. Architect, Herbert Eves, Jenkintown, Pa. Owners, Peter Bird & Ruse Flowers, Jenkintown, Pa. Frame and stone, 2½ stories, 17x47 feet, shingle roof, oak and pine floors, hot air and hot water heat, electric lighting. Bids due June 22nd.

Residence, Bryn Mawr, Pa. Architect, Wm. Wayne, Jr., 1501 Spruce street, Philadelphia. Owner, Mrs. H. G. Mitzler, 141 Sargent avenue, Bryn Mawr, Pa. Stone, 2½ stories, 25½ x41¾ feet, bond, composition floors. Architect taking bids, due as soon as possible.

Bank (add.), Greenville, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Perkiomen National Bank, care of M. F. Fluck, president, Greenville, Pa. Brick, 2 stories and basement, 15x 29 feet, hardwood floors, tile and marble work, electric lighting. Architects ready for bids, due June 20th.

Residences (2 single and 6 double), Sixth and Jubilee streets, Emaus, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, L. F. Heutville & Son, Emaus, Pa. Brick, 2 stories (2, 22x28 feet, and (6) 40x32 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect taking sub-bids.

Church (add.), Whitehall Township, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Mickley's Church, care of architects. Brick, 2 stories and basement, 18x52 feet, slate roof, hardwood floors, electric light, tile work. Ready for bids.

Nurses' Home, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Hospital, care of Monsignor P. Masson, Allentown, Pa. Brick, 4 stories, 37x105 feet, slag roof, hardwood floors, metal lath, electric light, tile work. Plans in progress.

Residence, Penfield, Pa. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, G. Harmon Webb, 5819 Sansom street, Philadelphia. Hollow tile and stucco, 2½ stories, 26x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Moving Picture, Broad street, Bethlehem, Pa. Architect, A. W. Lee, P. O. Building, S. Bethlehem, Pa. Owners, Peoples' Theatre Co., Inc., Bethlehem, Pa. Plans in progress.

Storage Warehouse, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, H. D. Haltzer, Allentown, Pa. Roof asphalt, concrete floors, electric light, 2 stories reconcrete, 66x 338 feet, roof ventilators, rolled steel sash. Architects taking bids, due June 20th.

Church, Easton, Pa. Architect, A. D. Chidsey, Jr., 341½ Northampton street, Easton. Owners, Presbyterian Church, care of architect. Stone, 1 story and basement, 77x40 feet, slate roof, hardwood floors, electric light, tile work, steel sash. Architect taking bids.

Packing House, Second and Chestnut sts., Reading, Pa. Architects and engineers, Himmelbach & Schlich, 136 Liberty street, New York City. Owners, Central Abattoir Co., Reading, Pa. Brick and steel, 2 stories and mazz., 125x82 feet, Barrett roof, concrete floors, hollow tile, roof ventilators, waterproofing, iron work, rolled steel sash, hollow metal skylights, kalamein doors. Architects taking bids, due June 21st.

Pennsylvania Contracts Awarded

Ward Building and Nurses' Home, Harrisburg, Pa., $471,127. Architects, Stevens & Lee, Boston, Mass. Owners, Harrisburg Hospital, Harrisburg, Pa. Brick and steel, 7 stories, 115x45 feet, and 4 stories, 93x52 feet, composition roof, linoleum and maple floors, hollow tile, metal lath, terrazzo, rolled steel skylights, fire doors, waterproong, terra cotta, ornamental iron work. Contract awarded to S. W. Shoemaker & Son, Harrisburg, Pa. Elevators and incidentals to be installed at extra outlay of $54,614.

School, Warminster, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Christ Home for Children, Warminster, Pa. Stone and brick, 2 stories and basement, 45x100 feet, slag roof, maple floors, steam heat, electric lighting. Contract awarded to Alex. Betcher, Hatboro, Pa.

Stores, Apartments and Office (alts.), Shenandoah, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Morris Oppenheimer, Shenandoah, Pa. General renovation, composition, asbestos and tile roof, maple floors, hollow tile, stucco, metal lath, steel ceilings, tile and marble, electric light, steam heat. Contract awarded to J. Gale Wendell, care of owner.

Bungalow, Simpson road, Ardmore, Pa. Architect, J. C. Norton, Ardmore, Pa. Owner, Michael Sheehan, Sheldon lane, Ardmore, Pa. Frame, 1½ stories, 26x40 feet, shingle roof, pine floors, hot air heat, electric light, tile work. Contract awarded to Tony White & Brothers Co., Ardmore, Pa.

Stores, Lincoln Highway, Ardmore, Pa., $12,000. Architect, J. C. Norton, Ardmore, Pa. Owner, William Armstrong, Ardmore, Pa. Brick and steel, 1 story, 30x75 feet, slag roof, maple floors, hollow tile, metal ceilings and bulks, store fixtures, rolled steel skylights, metal lath, hot water heat, electric light. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

Bungalow, Grandview road, Ardmore, Pa. Architect, J. C. Norton, Ardmore, Pa. Owner, John Green, Ardmore, Pa. Frame, 1½ stories, 28x38 feet, shingle roof, pine floors, hot air heat, electric lighting. Contract awarded to John Weaver, Ardmore, Pa.

Warehouse, Johnstown, Pa., $675,000. Architects, Wm. Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Johnstown Terminal Co., Johnstown, Pa. Reinforced concrete and brick, 6 stories and basement, 120x 250 feet, slag roof, concrete floors, elevators, iron work, waterproofing, cork insulation, rolled steel sash and skylights, steam heat, electric light. Contract awarded to Wm. M. Steele & Sons Co., 1600 Arch street, Philadelphia.

Bank and Office Building, Berwick, Pa., $50,000. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Berwick National Bank, Berwick, Pa. Brick, steel, terra cotta and cut stone, 2 stories, 50x 62 feet, asbestos asphalt roof, cement and linoleum floors, steam heat, electric light, metal lath, marble and terrazzo, hollow metal doors, bond, iron work, waterproofing. Contract awarded to Chester Const. & Cont. Co., Chester, Pa.

Residence and Garage, Swarthmore, Pa. Architects, DeArmond, Ashmead & Bickley, Franklin Trust Biuling, Philadelphia. Owner, S. D. Clyde, Chester, Pa. Hollow tile and stucco, 2½ stories, 50x25 feet and 18x20 feet, shingle roof, hardwood floors, hot air heating, electric lighting, tile work, cement work. Contract awarded to Wm. Provost, Jr., Chester, Pa.

Residence and Garage, Latham Park, Pa. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Milton Hinlein, care of architects. Stone, 2½ stories, 33x50 feet, slate roof, oak and pine floors, hot water heat, electric lighting, tile work. Contract awarded to Frank C. Hood, 1613 Chestnut street.

Residence, Harrisburg, Pa. Architect, G. H. Grove, Walnut street, Harrisburg, Pa. Owner's name withheld. Brick, 3 stories, 20x 32 feet, slate roof, pine floors, electric light, pipeless heating. Contract awarded to H. W. Hummer, 1423 Liberty street, Harrisburg.

Residence, Riverside Drive, Harrisburg, Pa. Architects, Lawrie & Lappley, Cotterel-Ebner Building, Harrisburg. Owner, Dr. G. H. Ashley, Parkway Apartments, Harrisburg. Brick, stucco, 2 stories, 35x35 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Delson & Stephenson, Harrisburg, Pa.

Court House (alts.), Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Lancaster County, care of County Commissioners, Lancaster, Pa. General alterations, tile floors, hollow tile, safety treads, metal lath, ornamental iron work. Contract awarded to Butz & Clader, Allentown, Pa.

Factory, Lititz, Pa. Architect H. Y. Shaub,

Imperial Building, Lancaster, Pa. Owner, H. J. Pierson, Lititz, Pa. Brick and steel, 2 stories, 20x40 feet, 20x90 feet, slag roof, composition floors, steam heat, electric light, steel sash, fire doors, roof ventilators, iron stairs. Contract awarded to Hershey Learan, Lititz, Pa.

Dye House (add.), Bridgeport, Pa., $15,000. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, James Lees & Sons Co., Bridgeport, Pa. Shed buildings and addition to dye house. Brick, 1 story, slag roof. Contract awarded to Frank R. Heavner, Norristown, Pa.

Church, Cynwyd, Pa. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Cynwyd Memorial Church, H. P. Irwin, Cynwyd, Pa. Stone, 1 story, 21x53 feet and 20x30 feet, slate roof, pine floors, steam heat, electric lighting, iron work. Contract awarded to Charles C. Pace, Merion, Pa.

Power House, Chambersburg, Pa. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Borough of Chambersburg, Chambersburg, Pa. Brick and steel, 1 story, 80x95 feet, slag roof, cement floors. Contract awarded to Quigley Hofer & E. M. Shields, Chambersburg, Pa.

Club House, Conshohocken, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Penn Club, Conshohocken, Pa. Hollow tile and stucco, 42x85 feet. Contract awarded to Wm. Moore, Conshohocken, Pa.

Residence, 242 Berwick street, Easton, Pa., $9,700. Architect, private plans. Owner, Mrs. Edith Nolf, 540 Berwick street, Easton, Pa. Brick, 2 stories, 50x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Asa P. Smith & Co., 1225 Gerry street, Easton.

Store (alts. and Add.), 229 North Hampton street, Easton, $27,800. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owners, the Bon Ton Store, on premises. Brick, 1 story, 20x24 feet, slate roof, hardwood floors, general interior alterations, electric light. Contract awarded to Asa P. Smith Co., 1225 Ferry street, Easton

New Jersey Construction News

Main School Building (alts. and add.), Bordentown, N. J. Associate architects, Gilbert & Betelle, Newark, N. J., and Arnold H. Moses, Camden, N. J. Owners, Manual Training and Industrial School for Colored Youths. (2) wings, add. 2 stories and basement, 37x80 feet (heating, light, ventilating and plumbing separate bids). Commissioner of Education, State House, Trenton, taking bids due June 28, at 3 P. M., D. S. Deposit, $25.00.

Church, West State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Christian Science Church, care of Mr. Bonham, Trenton, N. J. Brick and frame, 1 story, 40x80 feet, slate roof, hardwood floors, hot water heat, electric light. Plans in progress.

Residence, New Hope, N. J. Architect, Wm. Klemann, First National Bank Building, Trenton. Owner, Dr. L. T. Salmon, care of architect. Brick, 2½ stories, 44x32 feet, asbestos shingle roof, hardwood floors, hat water heat, electric light, tile and marble work, metal lath. Plans in progress.

Garages (13), 612 West State street, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton. Owner, Bernard Tobish, 161 South Broad street, Trenton, N. J. Brick, concrete, 1 story, 125x 20 feet, slag roof, concrete floors, steam heat, electric light, floor hardener. Plans in progress.

Store (add.), 161 South Broad street, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton. Owner, Bernard Tobish, on premises. Brick, 2 stories, 20x60 feet, slag roof, pine floors, steam heat, electric light, metal lath, hollow tile, roof ventilators, metal ceilings, skylights. Plans in progress.

Club House (add.), 168 West State street, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton. Owners, Progress Club, Louis Kaplan, secretary, on premises. Brick, 2 stories, 40x90 feet, slag roof, hardwood floors, electric light, metal lath, hollow tile, tile and marble work, roof ventilators, skylights. Plans in progress.

Residence, Hammonton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Dr. H. G. Black, Hammonton, N. J. Brick, 2½ stories, 26x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build and take bids.

Elementary School, Upper Deerfield Township, Cumberland County, N. J. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owners, School District of Upper Deerfield Township, N. J. Brick and frame, 8 rooms. Plans completed. Architects are ready for bids.

Store and Apartment (alts. and add.), 220 North Broad street, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, George Hornketh, 631 Princeton street, Trenton, N. J. Brick, 3 stories, 75x16 feet, slag roof, tile and hardwood floors, hot water heat, electric light, hollow tile, tile work, skylights, waterproofing. Architect taking bids, due June 16th.

High School, Bridgeton, N. J. Architects, itter & Shay, North American Building, Philadelphia. Owners, Board of Education, Bridgeton, N. J. Brick, cut stone and steel, 2 stories, 194x61 feet, composition roof, cement and maple floors, hollow tile, roof ventilators, electric light, metal lath, hollow metal sash and doors, bond, iron work. Architects taking bids, due June 21st.

Armory, Salem, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owners, State of New Jersey, Quartermaster's Department, Trenton, N. J. Brick, 1 story and basement and 2 stories, 74x90 feet, tin roof, electric light. Department of Institutions and Agencies taking bids, due June 22.

Stores and Apartments, Maple and Poplar streets, Merchantville, N. J. Architect, J. W. Platt, 1627 Sansom street, Philadelphia. Owner, George P. Dykman, Merchantville, N. J. Brick and concrete block, 2 stories, 40x48 feet, electric lighting. Owner and architect taking bids.

School, National Park, N. J. Architect, Charles H. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Borough of National Park, N. J. Brick, cut stone and steel, 2 stories, 59x39 feet, slag roof, pine floors, safety treads, metal lath, iron work. Lowest bidder, Wills-Bill Co., 1706 Sansom street, Philadelphia, $26,896.

Church, Thirty-sixth and Merriel avenue, Camden, N. J. Architects, Lackey & Hetile, 509 Market street, Camden, N. J. Owners, Westminster Presbyterian Church, on premises. Stone and steel, 1½ stories, 59x34 feet, asbestos shingle roof, linoleum, pine and cement floors, steam heat, electric light, metal lath, waterproofing, bond. Architects taking bids, due June 17th.

Apartments and Stores, Vineland, N. J. Architect, Reuben Beard, 2120 North Lambert street, Philadelphia. Owner's name withheld. Brick, 3 stories, 20x150 feet, slag roof, hardwood floors, hot water heating, electric lighting, metal lath, tile work, metal bulks and ceilings. Plans in progress. Architect will be ready for bids in two weeks.

Residence (alts.), Woodbury, N. J. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, Jos. Newton, Woodbury, N. J. Brick work, cut stone, iron work, carpentry, millwork, plastering, hot water heat, electric light, tile work, hardware. Architects taking bids, due June 15th.

Armory, Salem, N. J. Architects, Department of Institutions and Agencies, Division of Architecture, Trenton, N. J. Owners, State of New Jersey, Capitol Building, Trenton, N. J. Brick and steel, 2 stories, 96x76 feet, tin roof, pine floors, metal lath, tile work. Owners taking bids, due June 22nd at 1 P. M. S. T.

Elementary School, Upper Deerfield, N. J. Architects, Dreher, Churchman — Paul, Otis Building, Philadelphia. Owners, Upper Deerfield Township, Cumberland County, Board of Education, care of architects. General construction (lighting, plumbing, electric work and ventilating separate bids). Architects taking bids, due June 15th at noon at office of architects. Deposit $15.00. Refund $15.00.

Residence, Penfield, N. J. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Amos Jordan, 3723 North Seventh street, Philadelphia. Stone and stucco, 2½ stories, 33x40 feet, shingle roof, hardwood floors, plumbing, hot water heating, electric light, tile work. Architect is ready for bids.

School (add.), Gibbstown, N. J. Architect, Frank F. Sanders, 39 South Seventeenth st., Philadelphia. Owners, Board of Education, Gibbstown, N. J. Stone, 2 stories, 87x108 feet, composition roof, maple floors, metal lath, iron work, hollow metal skylights. Lowest bidders: Victor Gondos, Franklin Trust Building, Philadelphia, $66,500, add $200; E. J. Kreitzburg, 1345 Arch street, Philadelphia, $82,775, add $343; Barnes & McLaughlin, Estey Building, Philadelphia, $93,900, add $328. Heating and ventilating, Mechanical Equipment Co., Drexel Building, Philadelphia, $9,-741.

New Jersey Contracts Awarded

Residence and Garage, Pitman, N. J. Architect, Charles R. Peddle, 136 South Fourth st., Philadelphia. Owner, Peter S. Scott, Pitman, N. J. Brick and frame, 2½ stories, 40x29 feet, and 1 story, 21x21 feet, slate roof, oak and pine floors, metal lath, cement work, tile and marble, iron work (heating and lighting reserved). Contract awarded to Wills Bill Co., 1706 Sansom street, Philadelphia.

Garage, rear of 227 North Warren street, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton. Owner, Dr. D. Leo Haggerty, 227 North Warren street, Trenton. Brick, 1 story, 40x20 feet, slag roof, concrete floors, steam heat, electric light. Contract awarded to J. P. Corrigan, 618 Stuyvesant street, Trenton, N. J.

Comfort Station, Fair Grounds, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owners, Interstate Fair Association, Fred Margerum, Trenton, N. J. Hollow tile, stucco, 1 story, 30x30 feet, asbestos shingle roof, concrete floors, electric light, plumbing, terra cotta. Contract awarded to Thomas Day & Sons, 1109 Greenwood avenue, Trenton.

School (add.), Elridge Pike, Lawrence Township, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Lawrence Township School Board, Edw. Pearson, secretary, Lawrenceville, N. J. Brick, 2 stories and basement, 56x 62 feet, slate and slag roof, hardwood floors, steam heat, electric light, metal lath, tile work. Contract awarded to General Cont. & Const. Co., 117 Emory street, Trenton.

Garage (alts. and add.), Mt. Holly, N. J. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, Wm. A. Jones, Mt. Holly, N. J. General interior alterations, office partitions, composition floors, painting, glazing, plastering. Contract awarded to McCloskey Co., 1620 Thompson street, Philadelphia.

Miscellaneous Construction News

Church and Parish House (add.), Penn and Rodman streets, Wilmington, Del. Architect not yet selected. Owners, Westminster Church, on premises. Work contemplated.

Residence, Towson, Md. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, John Deebler, Towson, Baltimore, Md. Frame, clapboard, 2½ stories, 22x39 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile. Contract awarded to O. C. Hook, Riderwood, Baltimore, Md.

Proposals

ADVERTISEMENT FOR
ALTERATIONS AND ADDITIONS
MAIN SCHOOL BUILDING, MANUAL TRAINING AND INDUSTRIAL SCHOOL FOR COLORED YOUTH,
BORDENTOWN, N. J.

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct New Additions and Alterations to the present Main School Building at the Manual Training and Industrial School for Colored Youth, Bordentown, N. J., will be received by the Architects at the office of the Commissioner of Education, State House, Trenton, N. J., on June 28, 1922, at 3 P. M., Daylight Saving Time.

The work for which proposals are hereby invited covers the Alterations and Construction of two additional wings to the present Main School Building of the Manual Training and Industrial School for Colored Youth at Bordentown, N. J., complete, with Electric, Plumbing, Heating and Ventilating Equipments.

The additions consist of a wing at each end of present building extending out about 37 feet and being about 80 feet wide, being two stories and basement high. New Class Rooms will be placed in present Auditorium and a new entrance Portico constructed. The buildinig will have fireproof corridor and stair halls with the class room floors and roofs of heavy timber construction.

Bids will be received for the work under four separate contracts as follows:

1. For General Construction, which includes all Masonry, Carpentry, Steel and Iron, Roofing, Painting, and all work kindred thereto.
2. For Plumbing and Gas Fitting and all work kindred thereto.
3. For Heating and Ventilating and all work kindred thereto.
4. For Electrical Work and all work kindred thereto.

The right is reserved to accept or reject any or all proposals and to waive informalities. All bids must be in sealed envelopes endorsed "Proposal for Alterations and Additions, Bordentown Industrial School," and stating the branch of work covered. No bid will be considered unless accompanied by a certified check to the order of the State of New Jersey, in the amount of 5% of the bid or bond in like amount binding the bidder to execute a contract if awarded to him. The terms of proposal with Surety required are fixed by the specifications.

Copies of the drawings and specifications will be on file at the office of the Architects for the purpose of estimating. A limited number of copies of the plans and specifications will be loaned to the prospective bidders on deposit of a certified check to the order of the State of New Jersey in the sum of $25.00. These plans may be obtained by application of Guilbert & Betelle, Architects, 546 Broad St., Newark, N. J. If plans and specifications are returned on or before the submission of estimates the check will be returned, but should the plans and specifications be not returned the deposit may become forfeited.

GUILBERT & BETELLE
and
ARNOLD H. MOSES,
Associate Architects.

Dated: June 10th, 1922.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 10, 1922.—SEALED PROPOSALS will be opened in this office at 3 P. M., July 10, 1922, for construction of the United States Post Office and Custom House at Apalachicola, Fla. Drawings and specifications may be obtained from the Custodian of the site at Apalachicola, Fla., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 376)

construction to which one may turn for immediate, accurate and reliable information on any subject affecting construction.

For example: A contractor proposes to bid upon a building job at Dunkirk, N.Y. Prices can be made available on materials and labor of practically all classes for some nearby large city such as Buffalo, N. Y. Special prices for steel can be had f. o. b. Pittsburgh. Mileage and freight rates can be readily secured. Costs of living for employees who must be sent to the job and maintained there can be ascertained. Interest rates charged by banks for loans such as might be obtained locally, with the contract as collateral, can be obtained. Reports of stock on hand at different points will indicate where probabilities exist of buying to the best advantage. Reports of unemployment will show possibilities of securing labor locally or at the nearby main centers. Reports of contractors let will indicate the amount of competition of labor and materials which can be expected. The number and value of building permits issued will indicate the possibilities of securing other jobs in the same district, so that overhead can be reduced and extra profit secured or minor reductions made in bids. Comparisons of statistics for various months will render the preparation of bids much easier in districts where bids have already been prepared some months previously, and where contracts are actually under way so that accurate comparisons can be made between the public statistics and figures secured in actual work locally.

In fact, with such a bureau functioning at full capacity, a contractor may ask for a report in such a case which, at slight expense, will give him invaluable information affecting his bid. Such service is being rendered in other fields of business. It remains only for the construction industry to develop a central agency to be able to have such advantages also.

Take another example: a terra cotta manufacturer wishes to decide as to the best market in which to concentrate his selling campaign; prices for various terra cotta products may be made available weekly for all the principal markets; car loadings will indicate by districts where car shortages have lately been experienced, and comparisons with previous years will show what seasonal variations are likely to occur; numbers and values of building permits over considerable periods will indicate cities and districts in which building has been active and where it has been inactve, but is increasing or likely to do so ;interest rates will indicate the amount of discount which the manufacturer must expect to meet if he discounts notes received from terra cotta purchasers in the local market; and similarly with the many questions which must be answered before a final decision is made.

Again, a business man desires to compare building costs in a certain community with those in adjacent cities and the country at large. Published quantity lists for building of various types, such as small residences, office buildings or manufacturing plants, are available in many handbooks. A few extensions and totalings secured by using the same quantities with building material and labor prices from the cities in question wil give an immediate answer to the question. If material prices are high, the statistical service can begin to investigate the reason by comparing stocks on hand at various points, the amount of unemployment, the wage rates, the cost of living, the interest rates, and other factors.

Results Obtained in Six Months

The point is that, with the wealth of information which now exists affecting construction, a bureau such as this, properly manned by specialists who are devoting their time to discovering all possible sources and data relating to construction, can give the industry immediate and reliable service which no single individual can attempt to provide. This service the Associated General Contractors of America has begun to develop. Under the direction of a university-trained economist and editor, and of a graduate engineer and statistician, the latter formerly Chief Statistical Officer of the General Staff of the United States Army, this service bureau has been established.

(Concluded Next Week)

Reference Directory for Architects, Builders and Owners

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Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

BANK PARTITIONS.
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Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins. Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins. Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

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Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

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Clausen, Wm. H. .....27th and Diamond St., Phila.
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Keasbey & Mattison Co.....1927 Market St., Phila.

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Warren-Knight Co. .....136 N. 12th St., Phila.
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Weil, J. H., Co. .....1304 Arch St., Phila.

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Weil, J. H., & Co. .....1304 Arch St., Phila.

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Mont Clare Foundry Co.,
N. E. Cor 11th and Ridge Ave., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

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WATERPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

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Cyclone Fence Co. .....18 S. 7th St., Phila.

WIRE WORK.
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

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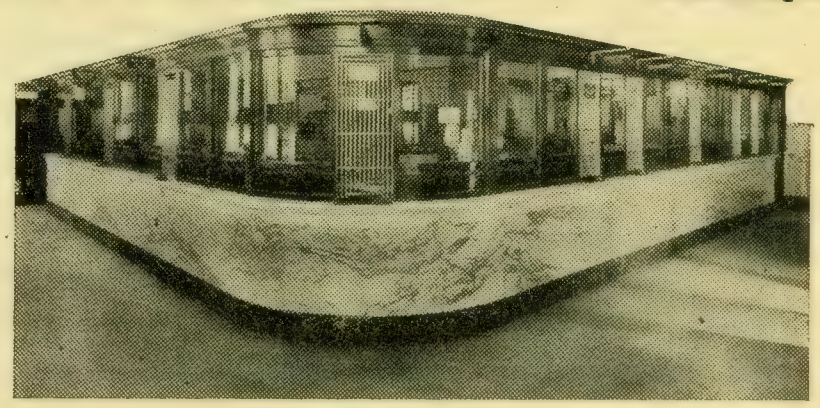
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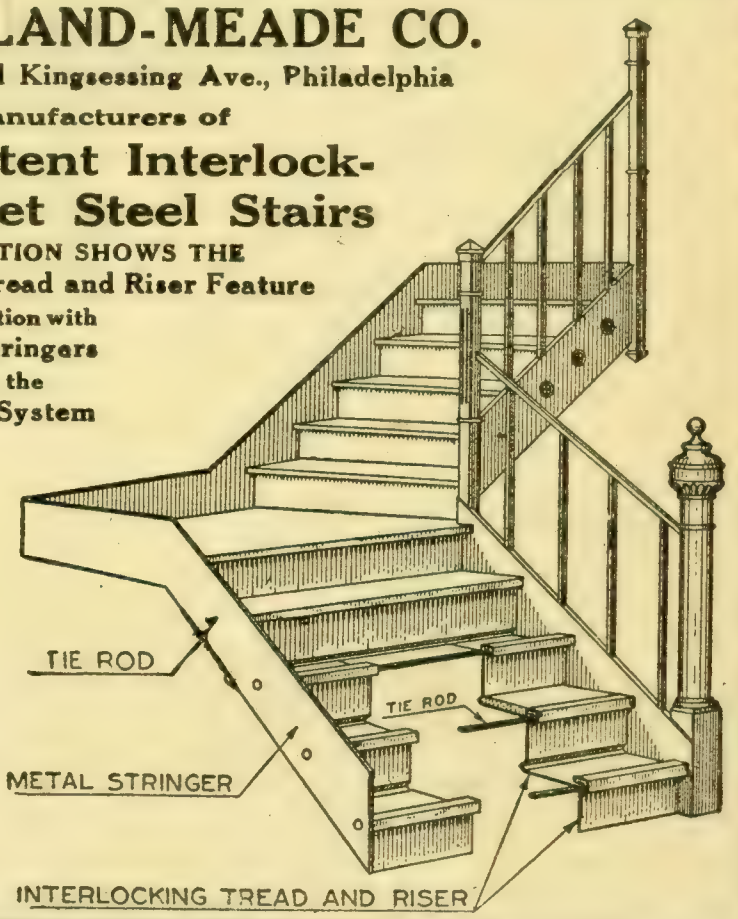
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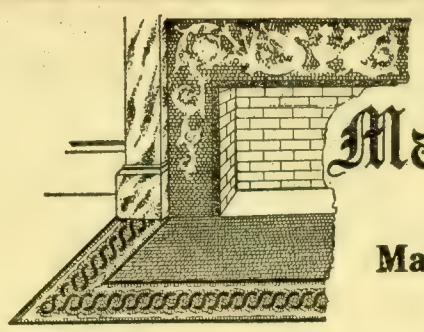


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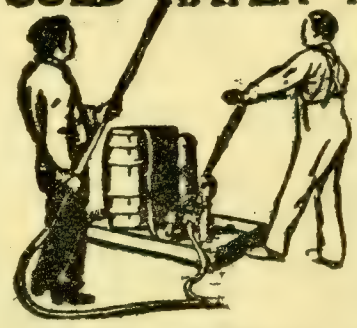
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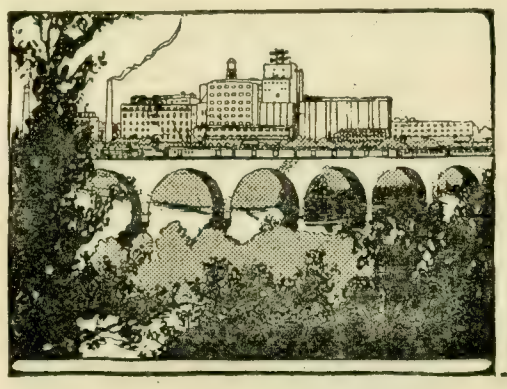
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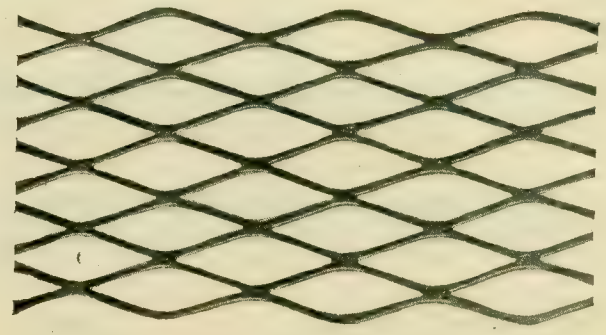
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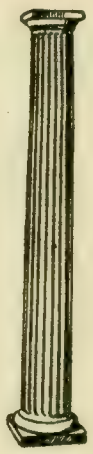
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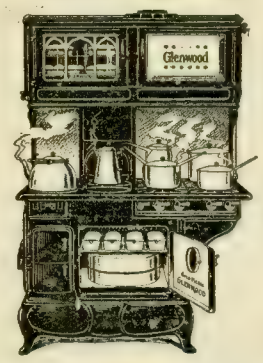
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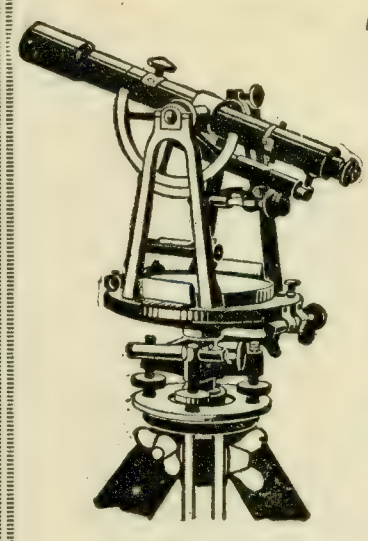
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 25

PHILADELPHIA
June 21, 1922

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

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As The Editor Sees It

STATISTICS FOR CONSTRUCTION

(Continued from Last Week)

Its first work has been to build up contact with all available sources and to start the accumulation o data relative to construction on which to base present and future analyses. From October 8 to March 25 inclusive, 25 reports, including from 150 ot 200 charts, diagrams and tables, with accompanying explanatory notes, have been issued.

A glance through the file of INDEX will indicate their nature; and it should be noted that not only general trends of costs, prices, wages, etc., are presented, but also very specific information which forms the basis for actual comparisons of conditions in particular localities, thus showing progress towards the time when specialized service of the most individualistic kind may be had.

The improved character and wide scope of such a service has been obvious as compared with the meagre information gathered by individual firms. The response from constructors has been very generous. Of the 1,200 members of the Associated General Contractors, approximately 200 from all parts of the country have already agreed to supply information regularly as to prices, wages, and conditions in their localities, on forms supplied by the bureau. Others have evidenced their interest by subscribing to the service at the annual subscription price. One contractor recently wrote that a single report had been worth the cost of the service for a whole year, and enclosed his check. Another wrote that the entire cost of his membership in the Association was justified by the service alone. Others have made requests for special studies applicable to their general field of activity such as building, highways, railroads, or public works construction, and these have been made.

Statistics Create Wide Interest

Naturally, the attention of others interested in construction has been attracted to the reports, and beginning January 1, 1922, subscription to INDEX has been opened to others than members of the Associated General Contractors of America. Architects, engineers, bankers, manufacturers, labor officials, and editors have expressed keen interest in the reports. As a result, one leading trade publication has developed a new department devoted to the statistics of the basic construction material which it represents, and another has enlarged the scope of its statistical work along the lines adopted by the bureau. Editors have asked for permission to reprint much of the material presented and special arrangement has been made with several to supply them with it regularly. The attention of the American Federation of Labor has been attracted by data presented relative to labor and especially by the analyses of construction wages and the cost of living, which have brought to light many discrepancies and furnished the basis for an intelligent and far basis of adjustment.

Engineers and architects are finding the data presented of value both in consultation work and in the preparation of estimates for clients, manufacturers in the analysis of market conditions and price trends, and in thte preparation of sales campaigns and sales literature. Bankers and allied interests are welcoming such statistical information specifically applied to construction, as an aid to them in determining the value of construction investments. Opportunity to take advantage of the service is being extended to ali other associations in the construction industry including contracts, sub-contractors, material manufacturers and dealers, real estate operators, and to chambers of commerce and the daily press whose interest in such information is obvious as part of their activity in inaugurating housing campaigns, accelerating public improvements and industrial development, and determining local employment and wage conditions. Several colleges and universities have also placed the service in their libraries for use in connection with their technical courses.

In these ways the bureau already is providing a better knowledge of construction conditions among those most directly connected with it, which will result in more accurate, and consequently lower, bids; and through the influence of the trade and

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daily press a greater confidence in costs and prices is being engendered with the consequent restoration of public confidence and general prosperity.

World Service for All Industries

The experiment which is being tried out in the construction industry is capable of extension to all the major industries in America, including tetilexs, leather, metals, food-stuffs, furniture, mining, agriculture, etc., etc. To create a similar bureau in each industry, in line with Secretary Hoover's policy in connection with the Department of Commerce, and to pool the information and data in the department for the benefit of the whole country will inevitably be of immense value.

Similarly, the plan may be extended to other nations. If associations in England, France, Belgium, Italy, etc., similar to the Associated General Contractors of America, will assume responsibility for developing bureaus serving their particuluar industries, and in each country ultimately extend this to include all major industries, there would soon be developed, at comparatively slight cost, the foundations for a great international exchange of information through the International Chamber of Commerce. The possibilities for great industrial progress through such an exchange of information are unlimited.

The experiment which has been started here in the construction industry in America is only a beginning; but we hope it contains the germ from which may be developed the continuing world survey of construction which the Committee on Construction of the International Chamber of Commerce was appointed to undertake.

The Constructor.

ELECTRICAL DEMONSTRATION HOMES

Educating home builders to an appreciation of the comfort and economy possibilities of adequately wired houses has been undertaken in a most effective manner by many groups within the electrical industry.

The "Home Electrical" demonstrating what can be done to make a residence more truly convenient has been found a profitable undertaking in over seventy cities, and many other communities are now planning similar undertakings.

The Society for Electrical Development is in close touch with this movement and, through its field men, has assisted in conducting a number of such electrical demonstration exhibits. While local electrical interests, including the light and power company, electrical contractors and dealers, have generally initiated the movements, the co-operation of real estate men, decorators and furniture dealers have contributed much to the success of the plans. The electrical men arrange to conduct visitors through the home in small groups, explaining briefly the advantages of the wiring arrangements and of the electrical appliances found in the different rooms.

The majority of Electrical Homes are open to the public for a period of two weeks, although some few have remained open for as long as four weeks. The houses have usually been sold, completely equipped, during the period of exhibition. The price obtained has generally been higher than was expected, even considering the added equipment included.

Generally speaking, the Society for Electrical Development believes that every city of 25,000 or over offers a good field for an electrical demonstration home. There are 288 such cities or over 200 still to try the plan. Such an undertaking acts not only as a stimulant to more and better electrical equipment, but also materially increases interest in home building. Construction interests in the cities not yet putting in an "Electrical Home" are urged to capitalize this added method of interesting prospective home buyers.

WHAT ARE YOU DOING?

How many boys and young men are you placing in jobs to learn some branch of the construction business this June when school is out? No more healthful work is possible for a summer's vacation for the boy who has to work between school terms. If the proper interest is taken in his welfare by his employers a permanent asset for the construction industry may be created by making him want to continue in it after he completes school or college. Contractors and other employers in the industry can no longer shirk their responsibility for the increasing shortage of young men in their business.

Talk the successes that have been made in construction and business will be good. Every individual in the industry can do his part. Resolve now to help one boy this June take up a building trade and thoroughly learn it. He will be economically independent if he does. No matter what happens he can always earn a living if he knows a trade, particularly a building trade.

BOYS MUST BE FIT FOR BUILDING TRADE

In the Binghamton, N. Y., builders plan for recruiting and training apprentices and young men for the trades and work on construction now being developed the fundamental question of determining the boy's physical qualifications is not overlooked. Too many men take up lines of work for which they are not physically qualified. Recently in another city two men collapsed on the scaffold laying brick. Had a physical examination been required they would never have been passed for such work.

Builders in every community should have a group employment plan for finding out such facts about each worker. Rochester is finding its experiment on employment service and data on time lost is paying for itself in partially meeting the present shortage of men because the least amount of time is being lost by workers between jobs. Rochester only needs to add the physical examinative feature and expand their records to cover all trades and they will have a splendid system.

They might also add a safety committee of workers and a thrift plan to encourage the saving of a portion of the wage towards building a home or as a safeguard against old age to make the building trades as attractive as work in other industries.

E. W. Holmes, of the E. W. Holmes Pebble Dash Co., Princeton, Ill., which can boast of three hundred stucco houses and not one complaint, says:

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Church, Fifty-sixth and Warrington avenue, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Angora Baptist Church, on premises. Stone. Preliminary plans in progress. Too early for details.

Residences (2), Awbrey and East Washington Lane, Germantown, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owners, Algernon Evans and Mrs. Jonathan Evans, care of architect. Stone, 2½ stories. Plans in progress. Architect will take bids in ten days.

Bank Building, 4638-40 North Broad street, Philadelphia. Architect, Charles A. Scheuringer, Bailey Building, Philadelphia. Owners, North Broad Street Title & Trust Co., Charles H. Wolff, chairman of Organizing Committee. Preliminary plans drawn. Too early for details.

Carroll Elementary School, Somerset and Salmon streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Brick, stone, steel and concrete, 3 stories. Plans completed. Owners will be ready for bids in a few days.

Store (alts.), 3625 Longshore street, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, W. Gorensteen, on premises. New brick front, 3 stories, 21 feet, flush bulks, plate glass. Plans in progress.

Garage and Paint Shop, Twenty-second and Lombard streets, Philadelphia. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Charles McKinley, care of architect. General alterations. Plans in progress.

Apartment House, Eighteenth street, between Waverly and Addison streets. Architect, Richard R. Neely, 2126 PiPne street, Philadelphia. Owner, name withheld. Brick, 4 stories, 40x40 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, extensive remodeling, interior stucco, fire escapes, plumbing. Plans in progress.

Factory Building, Forty-sixth and Market streets, Philadelphia. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, name withheld. Brick, slow burning construction, 3 stories, 40x114 feet, slag roof, steam heat, electric light, plumbing, elevators, hollow metal sash, fire towers, iron work. Plans in progress.

Office and Display Room, Seventeenth and Parkway, Philadelphia. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, Dr. Arthur McGinnis, Logan and Greene streets. Brick, steel and cut stone, 2 stories, 18x70 feet, slag roof, concrete and maple floors, metal lath, tile work, leaded glass, metal bulks, iron work (heating, lighting and plumbing reserved). Architect taking bids due June 30th.

Store and Office Building, 200 North Twelfth street, Philadelphia. Architect, J. L. Connarroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Preliminary plans in progress. Too early for details.

Tea Room (alts. and add.), 214 South Fifteenth street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Miss Elizabeth B. Owens, on premises. Revised plans in progress.

Apartment House, Sixty-second and Chestnut streets, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, M. Benjamin, 5913 Chancellor street, Philadelphia. Brick, 2 stories, 128x112 feet, slag roof, hardwood and pine floors, steam heat, electric lighting, metal lath, tile and marble work. Plans completed. Architect is taking sub-bids.

Fraternity House, 3010 Spruce street, Philadelphia. Engineers, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Sigma Alpha Epsilon, on premises, care of R. K. Walling, North American Building, Philadelphia. Brick, 3 stories, 50x70 feet, slate or slag roof, steam heating, electric lighting, tile work. Engineers will sub-let all contracts.

Residence, Chestnut Hill, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, B. Noyes, care of architect. Stone and steel, 2½ stories, 47x27 feet and 47x22 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, metal lath, tile and marble work, iron work. Architect taking bids due June 23rd.

Parochial School, Sixty-eighth and Lansdowne avenue, Philadelphia. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Callista's Roman Catholic Church, care of Rev. Daniel S. Connihan, on premises. Brick, cut stone and steel, 3 stories, 62x142 feet, composition roof, maple floors, electric lighting, metal lath, bond, iron work and stairs. Architect taking bids due June 23rd.

Residence, Chestnut Hill, Philadelphia. Architect, Robert Rhodes McGoodwin, 1422 Walnut street. Owner, W. Griffin Gribbel, 1513 Race street, Philadelphia. Stone, 2½ stories, 45x35 feet and 59x24 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Architect taking bids due June 24th.

Residence and Garage, Chestnut Hill, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Leah Rau, care of architect. Stone, 2½ stories, 39x33 feet and 20x11 feet, slate roof, oak, pine and cement floors, hot water heat, electric light, tile and marble, bond, iron work. Architect taking bids due June 22nd.

Club House (alts.), 311 East Haines street, Germantown. Architect, private plans. Owner, Holy Rosary Catholic Club, on premises. Brick, 2 stories, 22x73 feet, slag roof, maple floors, vapor heat, electric light, metal lath, iron work. Owners taking bids due June 22nd.

Convent, Second street, below Jefferson street, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Michael's Roman Catholic Church, care of Rev. J. Dugan, Second and Jefferson streets, Philadelphia. Brick and brownstone, 3 stories, slag roof, hardwood floors, tile work, vapor heat, electric light, tile and marble work. Architect ready for bids.

Store and Apartment, Forty-ninth and Powelton avenue, Philadelphia. Architect, Herman H. Kline, Penn Square Building, Philadelphia. Owner, A. Liebovitz, 4445 Pine street, Philadelphia. Reinforced concrete, steel, brick and terra cotta trim, 3 stories and basement, 55x75 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile and marble work, hollow metal skylights, roof ventilators, metal ceilings, ornamental iron work. Owner will build and is taking sub-bids.

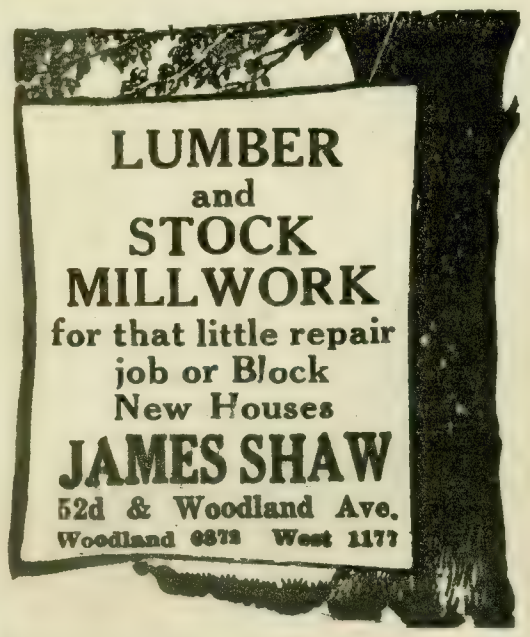
Store, Office and Apartment, 4515 Frankford

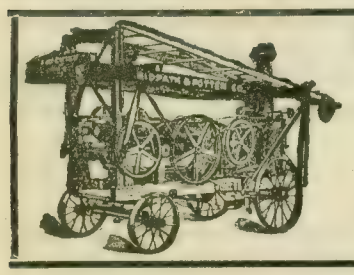
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avenue, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, Thomas J. Murray, on premises. Brick, joist construction, 3 stories and basement, 16x83 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile and marble work, flush bulks, plate glass. Owner will be ready for bids in one week.

Store and Residence (alts.), Nineteenth and Mifflin streets, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owners, Lenge Brothers, on premises. Brick, 2 stories, 15x17 feet, slag roof, pine floors, heating and lighting extensions, mill work, painting, plastering. Owners taking bids due as soon as possible.

Store and Residence, 1311-13-15 Point Breeze avenue, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, A. Curson, on premises. Tapestry brick, architectural terra cotta, 2 stories and basement, 48x77 feet, slag roof, composition and hardwood floors, hot water heat, electric light, metal lath, plumbing, tile, marble and terrazzo work, flush bulks, hollow metal skylights, ornamental iron work. Architects will be ready for general bids in a few days.

Bakery (add.), 6108 Torresdale avenue, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, A. Bachman, on premises. Brick, 1 story, 20x20 feet, slag roof, wood floors. Architect is taking sub-bids.

Residences (4), Eleventh and Lindley avenue, Philadelphia. Architect, private plans. Owner, Benjamin E. Dlaters, 200 Penn Square Building, Philadelphia. Stone, 2½ stories, 16x54 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Liberty Const. Co., Fairhill and Ruscomb streets, taking sub-bids.

Store (alts.), 5943 Market street, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owners, West Philadelphia Electric Co., on premises. Interior alterations, brick, 1 story add., 3x50 feet, skylights, heating and lighting extensions, hollow metal skylights. Plans completed. Architect is ready for bids.

Administration Building, Byberry, Philadelphia. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Philadelphia Hospital, Department of Public Health, care of Director C. L. Furbush, M. D., 584 City Hall, Philadelphia. Brick, cut stone and steel, 2 stories, 138x39 feet, slate and slag roof, cement and pine floors, hollow tile, metal weather strips, waterproofing, ornamental iron work, hollow metal doors, marble work, metal lath (heating, lighting and plumbing separate bids). Owners taking bids due June 29th at noon.

Home for Attendants and Domestic Help, Thirty-fourth and Pine streets. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Philadelphia Hospital, Department of Public Health, care of Director C. L. Furbush, M. D., 584 City Hall, Philadelphia. Brick, cut stone and steel, 2 stories, 93x38 feet, (2) wings, 88x37 feet, slag roof, granolithic floors, hollow tile, roof ventilators, metal weather strips, waterproofing, iron stairs and work, rolled steel skylights, metal lath, tile, marble and terrazzo (heating, lighting and plumbing separate bids). Owners taking bids due June 29th at noon.

Church (alts. and add.), Thirteenth and Rockland streets, Philadelphia. Architect, A. L. Dobbins, 1701 Arch street, Philadelphia. Owners, Logan Methodist Episcopal Church, on premises. Brick and cut stone, second-story add., 29x40 feet, slag roof, pine floors, electric lighting, iron work. Architect taking bids due June 23rd.

Miscellaneous Work, Cont. No. 661, Frankford Elevated. Owners, City Transit Department, 1211 Chestnut street, Philadelphia. Completion of construction and equipment (28 items) of Frankford Elevated and Bustleton surface lines, including connection to Market street subways at Front and Arch streets. Deposit of $25.00. Refund, $25.00.

Drug Store, Second and Mifflin streets, Philadelphia. Architect, Sol. Kaplan, 929 Chestnut street, Philadelphia. Owners, Frailinger Pharmacy, 1829 South Second street. New front, tile, marble and terrazzo, flush bulks, plastering, electric work. Architect is taking bids.

Store (alts. and add.), 1206-08 Point Breeze avenue, Philadelphia. Architect, Robert W. Pollock, 1802 Chestnut street, Philadelphia. Owner, J. Weiss, on premises. Brick, 2 stories, 9x12 feet, slag roof, pine floors, tile work, carpentry, mill work, plastering, plate glass, metal bulks (heating and lighting reserved). Architect taking bids.

Supplies, City Hall, Philadelphia. Owners, Department of Public Safety, Director's Office, 215 City Hall. Electrical material to be used in connection with construction of new electric elevators. Owners taking bids due June 22nd at noon, D. S.

Residences (8), North side Springfield avenue, Fifty-second to Paxon street, $66,000. Architect, Karl Otto, 5802 North Fifth street, Philadelphia. Owner, Joseph Feldman, 209 Lincoln Building, Philadelphia. Brick, 2 stories, 18 feet 10 inches x 67 feet and 19½x28 feet, 16x39 feet, slag roof, oak and pine floors, hot water heat. Owner will build.

Residences (3), 4660-62-64 North Sydenham street, and (4) 4661-63-65-67 North Sixteenth street, $35,500. Architect, private plans. Owner, William Cooper, 4680 Sydenham street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x9 feet and 15x40 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (15), Sixty-fifth and Jefferson street, Philadelphia, $8,000. Architect, private plans. Owners, Moss & Taylor, 851 North Sixty-fifth street, Philadelphia. Brick, 2 stories, 20x35 feet, slag roof, hot water heat, oak and pine floors. Owners will build.

Residences (6), South side Rockland street, East of Fourth street, $5,000 each. Architect, private plans. Owner, Carl Metz, 315 West Rockland street, Philadelphia. Brick, 2 stories, 15x30 feet, 12x10 feet, slag roof, hot water heat, electric light. Owner will build.

Residences, West side Carlisle street, North of Louden, $4,250 each. Architect, private plans. Owner, Charles Sinn, 5518 North American street, Philadelphia. Brick, 2 stories, 14x27x12 feet, slag roof, hot water heat. Owner will build.

Residences (15), South side McKean, West of Clapier street, $6,000. Architect, private plans. Owner, John H. McClatchey, 848 Land Title Building, Philadelphia. Brick, 2 sto-

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ries, 18x36 feet, slag roof, hot water heat, electric work. Owner will build.

Residences (12), North side Tabor Road, West of Tenth street and Northwest Corner, $4,200 each. Architect, private plans. Owner, Raymond G. Frick, 2960 North Judson street, Philadelphia. Brick, 2 stories, 15x27½ feet, 12x9 feet and 15x47 feet, slag roof, oak and pine floors, hot water heat. Owner will build.

Residences (2), Higbee street, East of Jackson street, $3,800. Architect, private plans. Owner, Frederick W. Dietrich, on premises. Brick, 2 stories, 16x34 feet, hot water heat, electric light. Owner will build.

Residences (12), West side Marsden street, South of Magee, $3,500 each. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, Tacony Housing Association, 6932 Keystone street, Tacony, Philadelphia. Brick, 2 stories, 14x60 feet, slag roof, oak floors, hot air heat, electric light. Owners will build.

Residence, 425 North Simpson street, Philadelphia, $5,000. Architect, private plans. Owner, Vincenzo Dautonio, 6426 Carlton street, Philadelphia. Brick, 2 stories, 16x55 feet, slag roof, hot water heating, electric lighting. Owner will build.

Private Garages, 5016-18-20-28 Frankford avenue, $3,000. Architect, private plans. Owner, Harold S. Swope, 5028 Frankford avenue, Philadelphia. Brick, 1 story, 19x88 feet, slag roof, cement work. Owner will build.

Residences (12), North side Yocum street, East of Sixty-first street, and Northeast Corner, $3,500 each. Architect, private plans. Owner, Meyer Gussman, 6107 Pine street, Philadelphia. Brick, 2 stories, 15x20½ feet, 9x8 feet, slag roof, hot water heat. Owner will build.

Sewers, various locations, Philadelphia. Owners, City of Philadelphia, Bureau of Surveys, Room 410, City Hall, J. A. Vogelson, engineer. Branch sewers, brick, 20 or more streets. Owners will take bids in ten days.

Electrical Material, Philadelphia. Owners, City of Philadelphia, Electrical Department, 616 City Hall, Philadelphia. 15,000 feet cable 12-3 in., elbows; 4000 feet of galvanized conduit 20-3 in., lock nuts, 10-3 in. pipe straps and 10-3 in. couplings. Owners taking bids due June 22nd at noon at 216 City Hall.

Municipal Pier, No. 4, South Wharves, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, George F. Sproul, Director, Bourse Building, Philadelphia. Schedule A: United prices on 10,000 hours of different classes of labor; 10,000 hours of different types of machine work and considerable ship fitting work. Prices on different classes of constructing material and machine steel, prices on lumber, nails, paint, putty, pipe and pipe fittings, rivets and shellac. Schedule B: Furnishing and delivering 50 length of 18-inch steel shore pipe for dredging plant. Schedule C: Furnishing and erecting flag poles at different docks. Owners taking bids due June 22nd at noon.

Miscellaneous Work, Philadelphia. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street, Philadelphia. Entire furnishing and installing electrical wiring and heating on Frankford Elevated Railway and Bustleton Surface Lines; 5,169 telephone terminal boxes, furnish and erect 5,607 telephone terminal connections to boxes, passenger station equipment, turn stiles, booths, ticket equipment and fans for each booth, office furniture, drill presses, grinders, etc., structural steel, concrete, brick work, demolishing of buildings and grading, heating and plumbing, furnishing snow plow, electric signals. Owners taking bids due June 27th at noon.

Residences (2), Northwest and Southwest Corners, Fifty-third and Pentridge streets, $6,000 each; (10) 1010-12-14 South Fifty-third street, and 1020 to 32 South Fifty-third street, $5,000 each; (10) 1013-31 South Fifty-third street, $5,500 each. Owner, Charles E. Biddle, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 15x40 feet and 15x29 feet, 12x10 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (5), Levick street and Lawndale avenue, $20,400. Architect, private plans. Owner, Vincent C. Turner, 5712 North Fourth street, Philadelphia. Brick, 2 stories, 15x39 feet, 15x28x10 feet, and 14x28 feet, 10x10 feet, slag roof, electric lighting. Owner will build.

Residences (4), 1113-15-17-19 Robbins street, $4,000. Architect, private plans. Owner, Harry F. Harting, 7403 Bingham street, Philadelphia. Brick, 2 stories, 14x41 feet, slag roof, hot water heating. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bank Building, Midvale and Ridge avenues, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, East Falls Bank, East Falls, Philadelphia. Brick, cut stone and granite, 1 story, basement and mezzanine, 100x27 feet, slag roof, cement and pine floors, hollow tile, roof ventilators, metal ceilings, waterproofing and dampproofing, iron work and stairs, bond, hollow metal doors, tile, marble and terrazzo, metal lath, steam heat, electric lighting. Contract awarded t oA. R. Raff Cont. Co., 1635 Thompson street.

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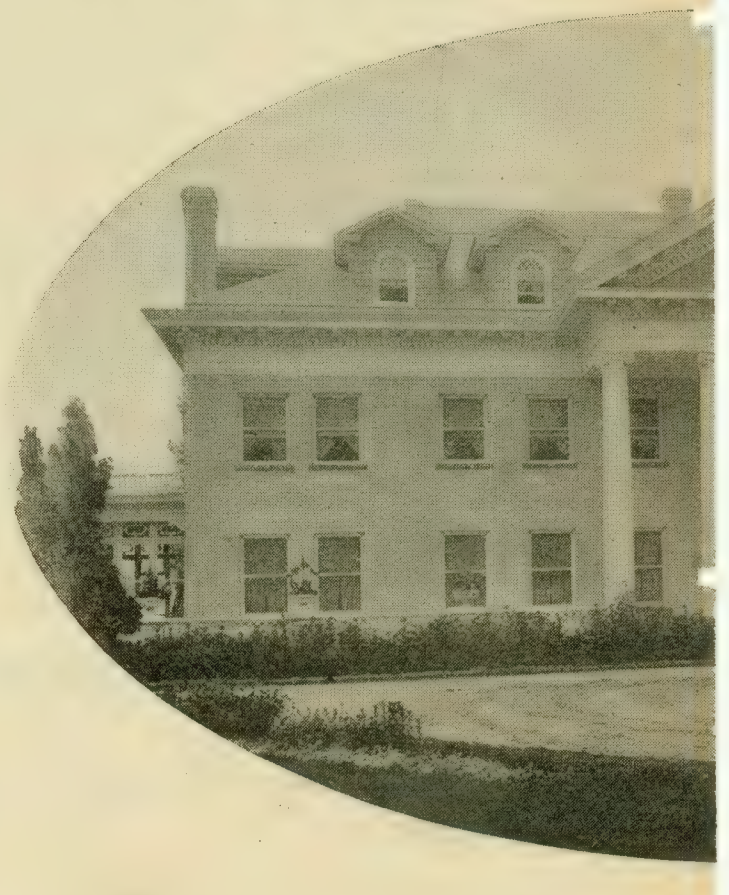
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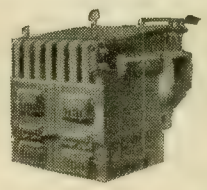
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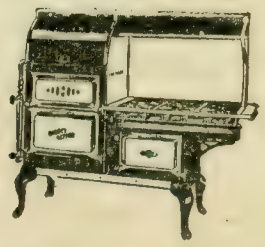
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WAREHOUSE STOCK IN PHILADELPHIA

and Walnut streets, Philadelphia, $500,000. Architect, LeRoy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Heymann & Brothers, Widener Building, Philadelphia. Brick, granite, cut stone and steel, 12 stories and basement, 42x145 feet, slag roof, concrete floors, dampproofing, terra cotta, iron work, kalamein and hollow metal doors, rolled steel skylights, hollow metal sash, marble and terrazzo (plumbing, electric work, heating and elevators reserved). Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

Junior High School, Gates, Fontain streets and Ridge avenue,, Philadelphia, $663,333. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Brick, granite and steel, 2 stories, 290x183 feet, composition and asphalt shingle roof, concrete, oak and mastic floors, safety treads, metal weather strips, waterproofing, dampproofing, terra cotta, iron work and stairs, bond, hollow metal doors, rolled steel skylights, metal lath, tile, marble and terrazzo. Contract awarded to M. Melody & Son, 1322 Race street. Electric, Walker & Kepler, 531 Chestnut street, $30,815. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, $36,988. Heating, William Early's Sons, 1216 Ridge avenue, $76,500.

Church, Twelfth street and Oak Lane avenue, Oak Lane, Philadelphia, $75,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Oak Lane Baptist Church, on premises. Stone, brick and cut stone, 1 story and basement, 50x80 feet and 18x18 feet, slate and concrete roof, pine floors, steam heat, electric light, tile work, roof ventilators. Contract awarded to F. B. Davis & Son, Inc., 240 North Sixteenth street.

Church, Fifth and Fisher's avenue, Philadelphia, $42,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Lindley Methodist Episcopal Church, on premises. Stone, 1½ stories, 67x55 feet, slate roof, pine floors, steam heat, electric lighting, tile work. Contract awarded to George B. Bond, Thirteenth street and Sixty-sixth avenue, Oak Lane, Philadelphia.

Warehouse, Northwest Corner Thirteenth and Federal streets, Philadelphia, $20,000. Architect, J. E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, Giacoma Photi, on premises. Brick, 3 stories, 20x100 feet, slag roof, steam heating. Contract awarded to Nicholas Nardi, 1726 Sansom street.

Residence, 7817 St. Martin's Lane, Germantown. Architect, John J. Graham, Jr., 10 South Eighteenth street, Philadelphia. Owner, Joseph J. Brown, on premises. General alterations, shingle roof, oak and pine floors, carpentry, mill work, plumbing, glazing, painting, hot water heat, electric light, tile and marble work. Contract awarded to James Riley & Son, Forrest avenue, Mt. Airy, Philadelphia.

Garage, Belfield avenue, above Courtland street Philadelphia. Architect, Amos W. Barnes, 10 South Eighteenth street, Philadelphia. Owner, S. H. Marvel, 1607 Hunting Park avenue, Philadelphia. Brick, slow burning, 1 story, 94x180 feet, slag roof, cement floors, roof ventilators, hollow metal skylights (heating, lighting and plumbing reserved). Contract awarded to Fred R. Freas, 1416 Hunting Park avenue.

Store and Apartments, Second and Poplar streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Israel Paul, on premises. Brick and steel, 3 stories, 69x45 feet, slag roof, oak and pine floors, hot water heat, electric light, tile and marble, metal lath, metal bulks, iron work. Contract awarded to Conneen Const. Co., 100 South Eighteenth street.

Building (alts.), Northwest Corner Broad and Race streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets. Carpentry, mill work, glazing, brick work, steam heat, electric light, metal lath, tile and marble, maple floors, bond, metal bulks, iron work. Contract awarded to Smith-Hardican Co., 1606 Cherry streets.

Dye House and Boiler House, Northeast Corner Magnolia and Armstrong streets, $18,500. Architect, J. B. Colesberry, 1625 Sixty-fifth avenue, Philadelphia. Owners, James F. Nolen & Son, Church Lane, Philadelphia. Brick, 2 stories, 50x38 feet, 50x85 feet, slag roof, cement floors, steel sash. Contract awarded to R. M. Peterson, 6 Queen Lane, Philadelphia.

Residence and Store (add.), 6003 Lansdowne avenue, $3,000. Architect, private plans. Owner, C. W. McClung, 6232 Jefferson street, Philadelphia. Brick, 2 stories,, 15x21 feet, slag roof, yellow pine floors. Contract awarded to J. W. Ripplinger, 23 South Fifty-second street, Philadelphia.

Church, Parsonage and Sunday School (alts. and add.), Oak Lane. Architects, Thomas, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owners, St. Martin's Protestant Episcopal Church, Oak Lane, Philadelphia. Stone, 2 stories, 33x24 feet, 30x28 feet, slate roof, maple floors, hot water heat, electric light. Contract awarded to P. A. Waltz & Co., Inc., Oak Lane.

Garage, 2333-35 East Gordon street, Philadelphia, $2,700. Architect, private plans. Owner, H. Hagan, on premises. Brick, 1 story, 36x65 feet, slag roof, cement floors. Contract awarded to O'Connor Brothers, 2310 East Cumberland street.

Garage, 5224 Arch street, Philadelphia, $22,000. Architect, private plans. Owner, W. Heims, Fifty-second and Market streets, Philadelphia. Brick, 2 stories, 77x135 feet, slag roof, cement floors, steel sash, hot water heat, electric light. Contract awarded to Felix Claro, 5313 Malcolm street, Philadelphia.

Store and Residence (add. and alts.), 3701 Woodland avenue, $4,500. Architect, private plans. Owners, Penn Drug Co., on premises. Brick, irregular size, yellow pine floors, electric lighting. Contract awarded to M. Lasse, 603 Wolf street, Philadelphia.

Store and Residence (alts.) to Stores (2) and Apartments, 627 South Sixtieth street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, George Deindorfer, on premises. General alterations, brick, two story add., 13x16 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath. Contract awarded to George S. Roe, 6949 Saybrook avenue, Philadelphia.

Swimming Pool and Bath House, Station and Cottman streets. Architect, John B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, B. H. Warburton, Director, 595 City Hall, Philadelphia. Brick and steel, 1 story, 95x98 feet, slate and slag roof, cement floors, waterproofing and dampproofing, terra cotta, iron work. Contract awarded to T. J. & J. R. Whelan, Seventeenth and Summer streets.

Residence, 2203 Naudain street, Philadelphia. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Robert Williams, care of architect. Brick, 2 stories, 17x43 feet, slag roof, pine floors, hot water heating, electric lighting. Contract awarded to Thomas B. Monaghan, 2009 Sansom street.

Residence (alts.), Overbrook, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. H. Geist, Land Title Building, Philadelphia. Carpentry, mill work, oak and pine floors, plumbing, hardware, painting, glazing, iron work. Contract awarded to E. J. Hedden, Finance Building, but not yet signed.

Store Building (alts. and add.), 5945 Market street, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, Samuel Bacharach, on premises. Brick and steel, slag roof, oak and composition floors, metal lath, plastering, tile and marble work, iron work, architectural terra cotta. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Factory Building, Southeast Corner Twelfth and Brown streets, Philadelphia. Architect, private plans. Owners, Fred W. Hosebach, 2415 South street, Philadelphia. Brick, cut stone and steel, 2 stories, 76x64 feet, slag roof, maple floors, metal lath, rolled steel sash, iron work (heating, lighting and elevators reserved). Contract awarded to John N. Gill Const. Co., Otis Building.

Sales and Service Building, 1155-57 South

Broad street, Philadelphia. Architect, R. W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Joseph A. Cunningham, on premises. Brick, cut stone and concrete, 2 stories, 46x52 feet, slag roof, composition floors, roof ventilators (heating, plumbing and lighting reserved), architectural terra cotta. Contract awarded to I. Bankoff, 433 Tree street, Philadelphia.

Residence, Northeast Corner Queen Lane and Thirty-second street, $13,214. Architect, Lawrence Visscher Boyd, Harrison Building, Philadelphia. Owner, name withheld. Brick and steel, 3 stories, 26x32 feet, 13x7½ feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to McClintock & Weaver, 24 West Phil-Ellena street.

Building (alts.), 4035 North Broad street, $7,000. Architect, A. D. Hill, 1340 Spruce street, Philadelphia. Owner, W. A. Nash, 1715 Widener Building, Philadelphia. Carpentry, mill work, painting, glazing, plastering, tile work, electric work. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Residence and Store (add.), Southeast Corner Tenth and Courtland streets, $6,000. Architect, private plans. Owner, Isadore Drill, on premises. Brick, 2 stories, 16x12 feet, slag roof, hot water heat, electric work, oak and pine floors. Contract awarded to B. Bornstein, 1319 Wingohocking street.

Bungalow, Northwest Corner Cottman and Whitaker streets, $6,000. Architect, private plans. Owner, William G. Drew, 219 Roosevelt Boulevard, Philadelphia. Brick, 1 story, 37x43 feet, slag roof, hot water heat, electric light. Contract awarded to Harry Hofmaier, 2247 North Fifth street, Philadelphia.

Residences (2), North side Tyson street, East of Glenlock, $5,000 each. Architect, private plans. Owner, Hugh McHenry, 6931 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x47 feet, slag roof, electric light. Contract awarded to John C. Stevenson, 7014 Hegerman street.

Residence, 5114 Willows avenue, Philadelphia, $5,000. Architect, private plans. Owner, F. Shanahan, Merchantville, N. J. Brick, 3 stories, 15x52 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Joseph J. Walls, 1932 South Fifteenth street, Philadelphia.

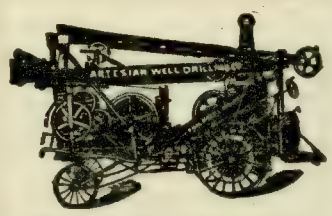
Residences (28), Uber street, Sixty-fifth to Sixty-sixth streets, $145,600. Architect, private plans. Owner, Thomas Quigley, Twenty-third and Columbia avenue, Philadelphia. Brick, 2 stories, 17x32 feet and 18x32 feet, slag roof, hot water heat. Contract awarded to C. A. Shuler, 1342 Wagner avenue, Philadelphia.

Residences (5), Lebanon avenue and Kenmore street, $7,000 each. Architect, private plans. Owner, Abraham F. Drill, 1440 North Twelfth street, Philadelphia. Brick, 2 stories, 17x59 feet, 14x24x35 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to M. Cylinder, 5734 Chestnut street, Philadelphia.

Residence, 927 North Randolph street, Philadelphia, $3,600. Architect, private plans. Owner, Andrew Syrdynska, 929 Randolph street, Philadelphia. Brick, 2 stories, 16x33 feet, 12x12 feet, slag roof, pine floors. Contract awarded to Frank Janyezek, 3188 Edgemont street.

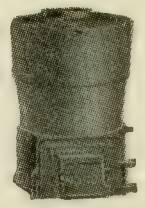
Shop, Northwest Corner Jefferson and Hope streets, Philadelphia, $3,400. Architect, private plans. Owner, Streff Elemer, 1416 North Second street, Philadelphia. Brick, 2 stories, 19x43½ feet, slag roof, yellow pine floors. Contract awarded to Edward C. Sherry, 1512 North Second street, Philadelphia.

Garages (2), 226 East Haines street, Philadelphia, $3,000. Architect, private plans. Owner, Marie Prartieri, on premises. Brick, 1



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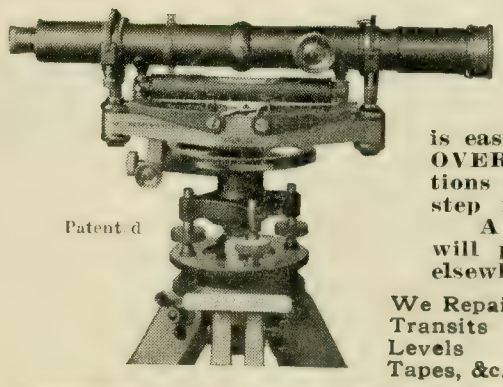
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story, 19x58 feet, slag roof, cement floors. Contract awarded to John H. Frith, Osceola street, Germantown, Philadelphia.

Store (add.), 8018 Frankford avenue, Philadelphia, $2,400. Architect, private plans. Owner ,R. Rosenthal, on premises. Brick, 1 story, 11x40 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to R. C. Speck, 6557 Torresdale avenue, Philadelphia.

Garage, West side Sixteenth street, South of Luzerne street, $11,000. Architect, private plans. Owner, John F. Brady, care of builder. Brick, 1 story, 82x90 feet, slag roof, cement floors, electric light. Contract awarded to Gartano Salvatore, 3001 Bonsall street.

Residence and Store (add.) and Garage, Northwest Corner Pratt and Jackson streets, $9,500. Architect, private plans. Owner, Ben Savoy, on premises. Brick, second story add., 11x17 feet, 21x52 feet, and garage, 1 story, 47x17 feet, slag roof, oak, pine and cement floors, hot water heat, electric light. Contract awarded to Stewart Brothers Co., 2526 North Orkney street.

Store (alts.), 919 Market street, Philadelphia. Architect, J. Linerd Conarroe, 225 South Sydenham street, Philadelphia. Owner, L. W. Hirsch, on premises. Carpentry, mill work, plate glass, plastering, electric work, tile and marble, metal ceilings, metal bulks, iron work. Contract awarded to Kober Const. Co., 34 South Seventeenth street.

Store and Rooming House, Northeast Corner Fortieth and Sansom streets, $30,000. Architect, private plans. Owner, W. T. Harris, Jr., 3944 Chestnut street, Philadelphia. Brick, 4 stories, 30x96 feet, slag roof, oak and yellow pine floors. Contract awarded to Ernest Purring, Narberth, Pa.

Building (alts.), 1018-20 Chestnut street, Philadelphia, $3,000. Architect, private plans. Owners, John Haworth Company, 1020 Chestnut street, Philadelphia. Bulk windows, plate glass. Contract awarded to Basch & Co., Ruan and Tackawanna streets.

Store, South side Norris street, East of Thirteenth street, $2,700. Architect, private plans. Owners, Alexander Brothers, on premises. Brick, 1 story, 12x18 feet, slag roof, yellow pine floors. Contract awarded to Co-operative Builders, 112 North Sixtieth street.

Garage, South side Monmouth street, West of Belgrade street, $2,000. Architect, private plans. Owner, M. J. Feeney, care of builder. Brick, 1 story, 41x20 feet, slag roof, cement floors. Contract awarded to J. J. Harding, 723 North Twenty-sixth street, Philadelphia.

Residence and Store (alts.), Southwest Corner Fifty-eighth and Florence avenue, $2,000. Architect, private plans. Owner, R. Gotz, on premises. General interior alterations. Contract awarded to M. J. Welsh, 7000 Woodland avenue, Philadelphia.

Building (add.), 1724 Oxford street, Philadelphia, $2,000. Architect, private plans. Owner, N. Skinner, on premises. Brick, 1 story, 12x10 feet, slag roof, yellow pine floors, electric work. Contract awarded to Thomas A. Donnelly, 1722 Oxford street, Philadelphia.

Residence and Store (alts.), 734 South Third street, $2,000. Architect, private plans. Owner, I. Silverman, on premises. General alterations, carpentry, mill work, plastering, painting, glazing, hardware. Contract awarded to B. Bornstein, 1319 Wingohocking street.

Residences (4), South side Sixty-sixth avenue, East of Park avenue, $12,000. Architect, private plans. Owner, Joseph Scholes, 1302 Oak Lane, Philadelphia. Stone, 3 stories, 22x52 feet, slate roof, oak and yellow pine floors, hot water heat, electric work. Contract awarded to Albert Dunlap, 7223 Oak avenue, Oak Lane.

Building (add.), Southwest Corner Tanner and Hope streets, $2,000. Architect, private plans. Owner, Richard Rooch, 2240 North Second street, Philadelphia. Brick, 2 stories, 34x62 feet, slag roof, yellow pine floors. Contract awarded to E. C. Sherry, 1512 North Second street, Philadelphia.

Residence and Store (alts.), 2035 North Thirty-second street, Philadelphia, $2,200. Architect, private plans. Owner, S. Kanterowitz, 1958 North Twenty-ninth street, Philadelphia. General interior alterations. Contract awarded to Samuel Schechter, 2559 North Dover street, Philadelphia.

Residences (3), 4001-03-05 Mitchell street, $3,500. Architect, private plans. Owner, Louisa G. Missimer, 414 Hermit Lane, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, electric work. Contract awarded to Harry Missimer, 414 Hermit Lane, Philadelphia.

Church, East side Opal street, South of Chelten avenue, $7,000. Architect, private plans. Owners, St. Benedict's Roman Catholic Church, W. E. Farrell, rector, on premises. Frame, 1 story, 43 feet 4 inches x 83 feet, shingle roof, yellow pine floors, electric lighting. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

Residence (add.), North side Chestnut avenue, West of Germantown avenue, $6,500. Architect ,private plans. Owner, Morgan Hebard, on premises. Stone, 3 stories, 19x15 feet, slate roof, oak and pine floors, electric lighting. Contract awarded to Alfred E. Martin, 1207 Race street, Philadelphia.

Office and Storage Building, 343 North Fifty-sixth street, Philadelphia, $6,000. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, John Hemphill, Jr., 628 North Fifty-sixth street, Philadelphia. Brick and steel, 2 stories, 20x35 feet, 20x65 feet, slag roof, cement and maple floors, skylights. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Residence and Store (add. and alts.), 1424-26 West Tioga street, $4,500. Architect, private plans. Owners, John E. Lewis Estate, on premises. Brick, 2 stories, 14x13 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to J. R. Schaeffer, 3731 North Seventh street, Philadelphia.

Store and Residence (alts. and add.), 1731 South Fifth street, $3,000. Architect, private plans. Owner, Max Pricenum, 1724 South Fifth street, Philadelphia. Brick, 1 story add., 14x12 feet, slag roof, yellow pine floors. Contract awarded to I. Farbstein, 917 Ritner street, Philadelphia.

Residence (add.), 640 North Sixty-eighth street, Philadelphia, $3,000. Architect, private plans. Owner, A. Leonardi, on premises. Brick, 2 stories, 12x20 feet, slag roof, yellow pine floors. Contract awarded to C. Mattia, 433 North Sixty-fifth street, Philadelphia.

Residence and Store (alts. and add.), 1252 North Fifty-second street, $3,000. Architect, private plans. Owner, Arthur Hall, 1206 North Fifty-second street, Philadelphia. Brick, 1 story, 10x16 feet, slag roof, electric work. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Residence (alts.), 315 South Twenty-first street, Philadelphia, $3,000. Architect, private plans. Owner, Charles McKeehan, on premises. General interior alterations. Contract awarded to R. C. Ballinger, 925 Walnut street, Philadelphia.

Residence and Store (alts.), 2959 Kensington avenue, $2,600. Architect, private plans. Owner, Louis E. Hueber, 2169 Kensington avenue, Philadelphia. Bulk windows, plate glass. Contract awarded to Basch & Co., Ruan and Tackawanna streets.

Store and Offices (add.), 1821 Walnut street, Philadelphia, $7,890. Architect, private plans. Owners, George Barrie's Sons, 1313 Walnut street, Philadelphia. Brick, 1 story, 12x32 feet, slag roof, yellow pine floors. Contract awarded to F. B. Davis & Sons, Inc., 240 North Sixteenth street.

Residence and Store (add. and alts.), Northwest Corner Fifty-second and Larchwood, $7,500. Architect, private plans. Owner, M. D. Allen, on premises. Brick, 1 story, various sizes, slag roof, oak and pine floors, electric work. Contract awarded to Frank R. Shriver, Fifty-first and Catherine streets.

Store (alts.), 1424 Chestnut street, Philadelphia, $6,000. Architect, private plans. Owner, Jacob Reed Sons, on premises. General alterations. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street.

Residence (alts.), 1921 Walnut street, Philadelphia, $6,000. Architect, private plans. Owner, Alfred F. Moore, on premises. Carpentry, mill work, plastering, painting, glazing, hot water heating, electric lighting. Contract awarded to Matthew Schmidt, 5319 North Twelfth street.

Pennsylvania Construction News

School, Skippack, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owners, School District of Skippack, J. Hallman, secretary. Brick, 1 story, 64x78 feet. Plans in progress.

Lodge Building, Perkasie, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owners, Combination of Lodges of District, care of B. Nemand, Perkasie, Pa. Brick, 3 stories, 40x100 feet, slag roof, electric lighting. Plans in progress. Too early for details.

Factory, Lancaster, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers, Third and Spruce streets, Philadelphia. Brick, joist construction, 3 stories and basement, 80x176 feet, metal roof, pine and maple floors, elevators, roof ventilators, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors, iron work. Plans in progress.

Stores (4), Apartments (8), Eighth and Edgemont streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, 42x134 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile and marble work, metal lath, flush bulks. Plans in progress.

Apartment and Store (alts. and add.), King and Queen streets, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, Keystone Hotel, care of E. Bush, 132 South Queen street, York, Pa. Brick, 3 stories, 70x31 feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

Store (alts.), King and George streets, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, J. Liebowitz, care of architect. Brick, general interior alterations. Architect ready for bids.

Hospital, West Reading, Pa., $1,500,000. Architects, Ritcher & Eiler, 1474 North Fifth street, Reading, Pa. Owners, Reading Hospital Board, Frank Livingood, President, Reading, Pa. Brick, steel, concrete, fireproof. Too early for details.

Church and Sunday School and Parsonage, Lancaster, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Covenant United Brethren Church, care of architects. Brick. Preliminary plans in progress.

Double Residence and Garage, Pottsville, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, C. F. Hummel, Port Carbon, Pa. Hollow tile and stucco, 2½ stories, 74x42 feet, and garage, 1 story, 25x32 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Garage and Apartment, Lansford, Pa. Architect, G. C. Freeman, Liberty Bank Build-

ing, Reading, Pa. Owner, Mr. Davies, Lansford, Pa. Brick or hollow tile, 3 stories, 45x55 feet, slag roof, pine floors, steam heat, electric light. Plans in progress.

Residence and Apartment, Mahanoy City, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owner, name withheld. Brick, steel, terra cotta, 3 stories, 25x125 feet, composition roof, hardwood floors, electric light, tile work. Plans in progress.

Garage and Apartment, Mt. Penn, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, I. F. Hart, care of architect. Reinforced concrete and brick, 2 stories and basement, 60x60 feet and 40x60 feet, slag roof, concrete and pine floors, hot water heat, electric light, tile work. Plans in progress.

Senior High School, Sixth and Division streets, Harrisburg, Pa. Architect, C. H. Lloyd, 701 Telegraph Building, Harrisburg, Pa. Owners, Board of Directors of School District of Harrisburg, D. D. Hammelbaugh, secretary, Harrisburg, Pa. Unit C-1, boiler room, engine room, connection of units A and B, kitchen, cafeteria and toilet rooms, 1 story, 107x50 feet, and 1 story, 195x107 feet. Unit C-2, swimming pool, stage, fan room, boys' gymnasium, locker room, 10 class rooms, boys' general toilets, south stairs, 2 stories and basement, 284x108 feet. Unit C-3, lockers, 10 class rooms, girls' toilets, north stairs, 3 stories, 155x108 feet. Brick, cut stone, limestone and steel, ready, composition and gypsum roofing, monolithic, pine and maple floors, hollow tile, roof ventilators, metal ceilings, terra cotta, iron work, floor hardener, bond, fire doors, rolled steel skylights and sash, tile and marble, metal lath (heating, lighting, plumbing and ventilating separate bids). Owners taking bids due June 23rd, 4 P. M.

Residences (200), Lewistown, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, Viscose Co., care of C. A. Erzast, Marcus Hook, Pa. Brick, 2 stories, 20x30 feet, slag roof, pine floors, electric lighting. Plans in progress.

School (alts. and add.), Bryn Mawr, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, School Board of Lower Merion Township, Bryn Mawr, Pa. Brick, cut stone and steel, 2 stories, 162x107 feet, built-up roof, pine, oak and composition floors, metal lath, marble work, copper sash, bond, iron work. Owners taking bids due June 23rd at 2 P. M.

Town Hall, Bridgeport, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Borough of Bridgeport, William Kinsley, chairman of Building Committee, Bridgeport, Pa. Brick and steel, 3 stories, 45x100 feet, slate roof, maple floors, metal lath, iron work. Architect taking bids due June 27th.

Manager's Cottage, Newtown Square, Pa. Architect, C. W. Brazer, Chester, Pa. Owners, Dunwoody Home, on premises. Brick and stone, 2½ stories, 36x26 feet, slate roof, oak and pine floors, steam heat, electric light, tile and marble, metal lath, bond ,iron work. Architect taking bids due June 22nd.

Bungalow, Wisconisco, Dauphin County, Pa. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner, Mr. J. G. Kiniley, 4200 Atlantic avenue, Atlantic City. Brick, stucco, 2½ stories, 34x80 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work, copper work. Owner ready for bids.

Residence, Penfield, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, J. G. McCue, care of architect. Frame and clapboard, 2½ stories, 25x36 feet and 23x14 feet, shingle roof, hardwood and composition floors, cement work, hot water heating, electric lighting, tile work. Owner is taking bids.

Residence, Cynwyd, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Robert A. Ferguson, Sr., care of builder. Stone, 3 stories, 26x40 feet, wing 18x16 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Robert A. Ferguson, Jr., 78 Pastorius street, Germantown, will build and is taking sub-bids.

Residence, Bowman avenue, Merion, Pa. Architect, private plans. Owner, Guy Croyle, Merion, Pa. Hollow tile and stucco, 2½ stories, 24x60 feet, shingle roof, oak and pine floors, hot water heating, tile work. Owner will build.

Church (alts.), Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Thomas' Reformed Church, Rev. Lee Erdman, Reading, Pa. Leaded glass, rebuilding organ, general alterations. Plans in progress.

Residence, Wyomissing, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, E. E. Hartman, Reading, Pa. Brick, 2½ stories, 34x27 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Wyomissing, Pa. Architects, Ritcher & Eiler, 1474 North Fifth street, Reading, Pa. Owner, G. F. Light, 133 West Buttonwood street, Reading, Pa. Brick and hollow tile, 2½ stories, 41x49 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Architect ready for bids.

Church, Dauberville, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, Bellmans Church, J. G. Kauffman, Dauberville, Pa. Brick, 1 story and basement, 48x92 feet and 30x53 feet, asbestos shingle roof, pine floors, steam heat, electric light. Architect taking sub-bids.

Residence, Hampton Heights, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Mr. De Temple, care of architect. Stone, 2 stories, 38x30 feet, slate roof, hardwood floors, electric lighting. Owner will sub-let.

Machine Shop (alts. and add.), Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Berks Eng. Co., Sixth and Chestnut streets, Reading, Pa. Brick, steel, 1 story, 232x26½ feet, composition roof, wood floors, electric light, rolled steel sash and skylights. Owner ready for sub-bids.

Club (demolition and rebuilding), Reading, Pa. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, Northeastern Republican League, Mr. Singerly, Tenth and Walnut streets, Reading, Pa. Brick, 2 stories and basement, 54½x100 feet, slag roof, hardwood floors, vapor vacuum heat, electric light, metal lath, terrazzo work, dumb waiter. Owners taking revised bids due June 30th.

Rectory (demolition and rebuilding), 322 South Fifth street, Reading. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, St. Peter's Roman Catholic Church, Rev. J. F. Kiernan, on premises. Brick, 3 stories, 51x83 feet, slate roof, hardwood floors, tile work, electric light. Architects taking bids due June 28th.

Bank, Stores and Office Building, Tyrone, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Farmers' & Merchants' Bank, Tyrone, Pa. Stone, brick and steel, 5 stories, 100x60¾ feet, slag roof, hardwood, pine and cement floors, hollow tile, roof ventilators, metal window guards, bronze work, tile and marble work (plumbing, heating, lighting, elevators and vaults separate bids). Architect taking bids due June 26th at 4 P. M.

Bungalow, Eagle Heights, Pa. Architect, private plans. Owner, H. M. Ehringer, 6213 Delancey street, Philadelphia. Mineral stucco, 1½ stories, 34x40 feet, slate roof, pine floors, steam heat, electric lighting, tile. Owner taking bids due as soon as possible.

School, Sinking Spring, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owners, Sinking Spring School Board, H. L. Fisher, secretary, Sinking Spring, Pa. Brick, cut stone, reinforced concrete, 3 stories, 78x108 feet, slag and slate roof, hardwood floors (heating, plumbing and electric light reserved), tile work, skylights, bond. Lowest bidder: H. W. Fry, Marttindale, Pa., $75,000.

Residences (4), Glenside, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, William E. Cabeny, Glenside, Pa. (2) stone and frame, 2½ stories, 29x31 feet, (1) stone, frame and stucco, 2½ stories, 27½x38 feet, and (1) stone and stucco, 2½ stories, 37¼x24¼ feet, wing 10½x17 feet, shingle and slate roofs, oak and pine floors, tile work (heating, lighting and plumbing reserved). Architect taking bids due June 24th.

School (high), Shippensburg, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, School Board of Shippensburg, C. E. Warren, secretary, Shippensburg, Pa. Brick, stone trim, 2 stories. Too early for details.

Double Residence, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, J. H. Kreamer and Dr. John A. Sherger, 1809 North Sixth street, Harrisburg, Pa. Stone, 2 stories, 40x50 feet, slate roof, hardwood floors, vapor heating, electric lighting, tile work. Plans in progress.

Dormitory, Kaski School, Salsbury, Pa. Architects, Lawrie, Green Co., Commonwealth Building, Harrisburg. Owners, care of architects. Stucco, 2 stories and basement, 30x60 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Store, Office and Apartment (add. and alts.), Lewistown, Pa. Architects, Lawrie, Green Co., Commonwealth Building, Harrisburg. Owner, Walter Fosnot, on premises. Brick, 3 stories, 30x60 feet, slag roof, pine floors, vapor heat, electric lighting. Plans in progress.

Fraternity House (alts. and add.), Carlisle, Pa. Architects, Lawrie, Green Co., Commonwealth Building, Harrisburg. Owners, Phi Kappa Sigma, care of architects. Frame and stucco, 2 stories, 30x30 feet, composition roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

City Stables, Twelfth and Foster streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, City of Harrisburg, Dr. Hassler, Superintendent of Public Safety, Dauphin Building, Harrisburg, Pa. Brick and steel, 2 stories, 32x125 feet, sheet metal work, concrete floors, electric light, steel sash, roof ventilators, terra cotta, rolling doors, kalamein doors. Owners ready for bids due June 28th.

High School, Ambler, Pa. Architect, S. S. Conver, 11 South Sixteenth street, Philadelphia. Owners, Board of Education, Ambler, Pa. Brick, steel, 2 stories, 73x135 feet, slag roof, cement, composition and maple floors (heating and plumbing reserved), electric light, metal lath, hollow metal sash, kalamein doors, rolled steel sash, roof ventilators, waterproofing and dampproofing, iron stairs, ornamental iron work. Owners taking bids due July 1st.

School, McConnellsburg, Pa. Architects, Lawrie, Green Co., Commonwealth Building, Harrisburg. Owners, School Board of McConnellsburg, Charles B. Stevens, secretary, McConnellsburg, Pa. Brick, 1 and 2 stories, 73x87 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved), roof ventilators, skylights. Architect taking bids due June 22nd.

Residence, Penfield, Pa. Architect, J. L. Connarroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Hollow tile, frame and stucco, 2½ stories, 30x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Crescentville, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, George T. Sale, care of architects. Frame, stucco, 2½ stories, 24x32 feet, slate roof, oak and pine floors, hot water heat, electric light. Architect taking bids due June 22nd.

Store Building (alts. and add.), Tamaqua, Pa. Architect, Benjamin Rush Stevens, 1737 Filbert street, Philadelphia. Owners, Gelb & Mayer, Tamaqua, Pa. Brick, 3 stories, 40x150 feet, slag roof, maple floors, electric light, heating repairs and extensions, general alterations and additions, rolled steel sash, hollow metal skylights, show windows, waterproofing. Architect taking bids due June 28th.

Pennsylvania Contracts Awarded

Residence, Ardmore, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, I. L. Gifford, care of architect. Stone and frame, 2½ stories, 25x41 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Penn Building Co., 1504 West Venango street, who is taking sub-bids due at once.

Residence and Garage, Bywood, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Louis Heinz, care of architect. Frame and stucco, 2½ stories, 25x30 feet and 10x17 feet, shingle roof, hardwood and cement floors, hot water heating, electric lighting, tile work. Contract awarded to Penn Eng. & Const. Co., 3840 Spring Garden street, Philadelphia.

Residence, Aldan, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Herbert Hebsacker, care of architect. Frame and stucco, 2½ stories, 25x30 feet, shingle roof, hardwood floors, cement work, hot air heating, electric lighting. Contract awarded to H. G. Hickey, 1114 South Fifty-second street, Philadelphia.

Church, Sunday School and Parsonage, East Stroudsburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, East Stroudsburg Methodist Episcopal Church, Rev. J. E. Grauley, East Stroudsburg, Pa. Brick, steel, reinforced concrete, 1 story and basement, 52x100 feet, slate and Carey roof, hardwood floors, vapor heat, electric light. Contract awarded to J. Rake, East Stroudsburg, Pa.

Garage, Melrose Park, Pa., $3,500. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, Edward Peterzell, Melrose Park, Pa. Stone, 2 stories, 19x20 feet, slate roof, cement and pine floors, electric lighting. Contract awarded to George H. Evans, Inc., 109 North Thirteenth street, Philadelphia.

Sunday School and Community Building, Easton, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Memorial Reformed Congregation, Easton, Pa. Brick and stone, 1 story, 70x90 feet, slate roof, maple floors, steam heat, electric lighting. Contract awarded to Butz & Clader, Allentown, Pa.

Residence (alts.), Jenkintown, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Angelo Meyers, Jenkintown, Pa. Carpentry, mill work, plastering, painting, hardware, glazing, metal lath, tile and marble (heating, lighting and plumbing, owner will take separate bids). Contract awarded to A. Zellfelder, 1324 Walnut street, Philadelphia.

Bridge over Darby Creek, between Springfield and Upper Darby Townships, Pa., $12,000. Engineer, R. Y. Adylotte, Court House, Media, Pa. Owners, State of Pennsylvania Highway Department, Harrisburg. Plate girder, 72 feet encased in concrete. Contract awarded to H. Denberger, Bethlehem, Pa.

Apartment and Store (alts. and add.), 430 North Sixth street, Reading. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owner, Robert De Turck, on premises. Brick, 3 stories, composition roof, pine floors, hot water heat, electric light, tile and marble work, general alterations. Contract awarded to C. H. Schlegel, 2328 Perkiomen avenue, Reading.

Bank (alts. and add.), Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, First National Bank, J. Hengle, president, Reading, Pa. Brick, 1 story and basement, 35x30 feet, composition roof, marble floors, electric light, tile and marble work, skylights. Contract awarded to Beard Const. Co., 658 Penn street, Reading.

Church, North Chester street, Hanover, Pa. Architects, Ritcher & Eiler, 1474 North Fifth street, Reading, Pa. Owners, St. Matthew's Lutheran Church, Hanover, Pa. Contract awarded to O. H. Hostetter, Hanover, Pa.

Bungalow, Springfield, Pa. Architect, Horace M. Hokanson, 1713 Sansom street, Philadelphia. Owner, J. Warren Goheen, care of architect. Frame, 1½ stories, 49x35 feet, shingle roof, oak and pine floors, hot air heat, tile work. Architect taking bids due as soon as possible.

Club House, Berne Township, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owners, Willow Brook County Club, care of architect. Brick, stone, 2½ stories. Contract awarded to Charles Schlegel, 2328 Perkiomen avenue, Reading, Pa.

Twin Residence and Garage, Cynwyd. Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, Gwynn T. Sheppard, care of architect. Hollow tile and plaster, 2½ stories, 54x30 feet, 1½ stories, 39x20 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, bond. Contract awarded to Mowrer Brothers, Merion, Pa.

Twin Residence, Brookline, Pa. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owners, Cobbia Brothers, Brookline, Pa. Brick, 2 stories, 32x60 feet, hot water heat, electric light, slag roof, pine floors. Contract awarded to Matthew Della Portia, 1624 South Fifteenth street. Architect is taking sub-bids for builder, due as soon as possible.

Residence (alts. and add.), Ardmore, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, T. Edward Ross, Ardmore, Pa. Stone, second-story add., 16x20 feet, shingle roof, hardwood floors (heating reserved), electric light, tile work, plumbing. Contract awarded to Milton W. Young, Overbrook, Pa.

New Jersey Construction News

Twin Residence, Pensauken Township, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, M. Waldman, care of architects. Frame, 2 stories, 30x45 feet. Sketches in progress.

Factory (alts. and add.), Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Collins Carriage Co., care of Robert Collins, Camden, N. J. Brick, 2 stories. Sketches in progress.

Store Front, Broadway, Camden, N. J. Architect, Thomas Stephen, Masonic Temple Building, Camden, N. J. Owners, W. L. Hurley Company, 451 Haddon avenue, Camden, N. J. Brick, terra cotta, 1 story, slag roof, hardwood floors. Preliminary sketches in progress.

Residence, West Collingswood, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, G. H. Praymore, care of architect. Brick, 2½ stories, 36x24 feet, asbestos roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Store and Apartment, Vineland, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Mr. Zukerman, care of architect. Brick, 2 stories, 58x58 feet, slag roof, pine floors, steam heat, electric light, plate glass. Plans in progress.

Residence, Haddonfield, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, W. G. Shinn, care of architect. Hollow tile and stucco, 2½ stories, 26x41 feet, shingle roof, hardwood floors, hot air heat, electric light. Architect will be ready for bids this week.

Garage, North South Carolina avenue, Atlantic City, N. J. Architect, L. R. Barber, Guarantee Trust Building, Atlantic City. Owner, F. P. Grovatt, Atlantic Apartments, Atlantic City, N. J. Brick, 1 story, 100x100 feet. Plans in progress.

Store Building (alts. and add.), 933-35-37 Broadway, Camden. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owner, Nathan Fuhrman, on premises. Brick and steel, 2 stories, 86x60 feet, Barrett specification roof, cement and pine floors, elevators, iron work and stairs, hollow metal skylights, rolled steel sash, tin covered and hollow metal doors, metal lath, steam heat, electric lighting. Architect taking bids due June 23rd.

School, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, School Board of Pleasantville, Arthur Stiles, secretary, Pleasantville, N. J. Brick, 3 stories, 84x122 feet, slag roof, hardwood floors, steam heat, electric light, ventilators, waterproofing. Revised plans in progress.

Stores (5) and Apartments, Pleasantville, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, J. O. Flutie, Pleasantville, N. J. Brick, 2 stories, 85x65 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, metal ceilings. Architect will be ready for bids in one week.

Pavilion, Bath House and Swimming Pool, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Atlantic City, L. Steinbrecker, City Hall, Atlantic City, N. J. Concrete, frame, 2 stories, 250x100 feet, prepared roof, concrete and pine floors, electric light, waterproofing, laundry equipment. Owners will take bids in two weeks.

Power House and Kitchen Addition, Absecon, N. J. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Seaview Golf Club, care of C. H. Geist, Land Title Building, Philadelphia. Brick, 1 story, 40x50 feet. Architect taking bids due June 24th.

Apartment, 109 South Maryland avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Yarkov & Shenkman, Guarantee Trust Building, Atlantic City. Brick, 3 stories, 28x98 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Apartment, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Kandle &

Ott, Raleigh and Ventnor avenues, Atlantic City. Brick, 3 stories, 27x92 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Road Work, Red Bank, N. J. Engineer, George K. Allen, County Engineer, Red Bank, N. J. Owners, County of Monmouth, Board of Chosen Freeholders, Court House, Freehold, N. J. Asphalt surface on concrete foundation, 27,307 square yards. Owner taking bids due June 21st at 11 A. M. Deposit of $10.00.

Road Work, Phillipsburg to Still Valley, Warren County, N. J. Engineer, Harry W. Vetter, County Engineer, Belvidere, N. J. ers, **Board of Chosen** Freeholders, County of Warren, Belvidere, N. J. Reinforced concrete, 21,560 square yards. Owners taking bids due June 21st at 1 P. M. Deposit of $10.00.

Highway Work, Asbury Park, N. J., and Neptune Township, Monmouth County, N. J. Engineer, A. W. Muir, Superintendent of Maintenance, Broad Street Bank Building, Trenton, N. J. Owners, State Highway Commission, Broad Street Bank Building, Trenton, N. J. Reinforced concrete, 20,340 square yards. Owners taking bids due June 28th at 11 A. M.

Road Work, Long Branch, Oceanport Road, N. J. Engineer, George Kallen, County Engineer, 60 Broad street, Red Bank, N. J. Owners, Board of Chosen Freeholders, Monmouth County, Freehold, N. J. Reinforced concrete, 173 miles. Owners taking bids due June 28th at 11 A. M. Deposit of $10.00.

New Jersey Contracts Awarded

Memorial Building, Portland and Ventnor avenues, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owners, Deane Memorial Home, care of architect. Hollow tile, stucco, 2½ stories, 50x60 feet, hardwood floors, electric light, tile work. Contract awarded to Philip G. Hannum, George avenue and Thorofare, Atlantic City, N. J.

Residence and Garage, Troy and Atlantic avenues, Atlantic City. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City. Owner, Mrs. McCurk, Delaware and Atlantic avenues, Atlantic City. Frame, 2½ stories, 24x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to J. Vaughan Mathis & Son, Guarantee Trust Building, Atlantic City, N. J.

Hospital (add.), Ohio and Michigan avenues, Atlantic City, N. J. Associate architects, H. A. Stout and J. V. Mathis and S. Hudson Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Atlantic City, care of E. L. Bader, City Hall, Atlantic City. Frame and metal, 1 story, 40x130 feet, slag roof, pine floors, electric light, roof ventilators. Contract awarded to Wilbert Beaumont, 12 South Tennessee avenue, Atlantic City, N. J.

Convent Addition, Broadway and Ferry avenue, Camden, N. J., $11,976. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owners, Sacred Heart Roman Catholic Church, care of Rev. J. J. McCloskey, Broadway and Ferry streets, Camden, N. J. Brick and stone, 2 stories, 35x31 feet, slag roof, pine and granolithic floors, metal lath, electric work, bond, iron work. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia.

Church (alts.), Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphai. Owners, First Presbyterian Church, Moorestown, N. J. General interior alterations, slate roof, hardwood floors, electric work, plumbing. Contract awarded to Stewart L. Maines & Son, Moorestown, N. J.

Garage, Mt. Holly, N. J. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, W. D. Marren, Mt. Holly, N. J. Brick and steel, 1 story, 100x40 feet, slag roof, cement floors, rolled steel sash. Contract awarded to McCloskey & Co., 1620 Thompson street, Philadelphia.

Miscellaneous Construction News

Country Club, Greensboro, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Greensboro Country Club, care of A. J. Clutz, chairman of Building Committee, Greensboro Drug Co., Greensboro, N. C. Hollow tile and stucco, 2½ stories, 105x50 feet, tile roof, hardwood floors, vapor heating, electric lighting, tile and marble work. Owners taking bids due June 23rd before noon.

Army Medical School, Walter Reed Hospital, Washington, D. C. Architect, private plans. Owners, War Department, Quartermasters' Corp., Construction Service, Washington, D. C. Brick, cut stone and steel, 4 stories and basement, 256x50 feet, slag roof, linoleum and concrete floors, hollow tile, elevators, waterproofing and dampproofing, floor hardener, iron work, rolled steel sash, marble and terrazzo work, metal lath, steam heat, electric lighting, cork insulation. Owners taking bids due June 27th.

Miscellaneous Contracts Awarded

Auditorium, Winston-Salem, N. C., $400,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Mrs. J. Edward Johnston, Winston-Salem, N. C. Brick, concrete, steel and hollow tile, stone, 1 story, 100x200 feet, electric lighting, iron work. Contract awarded to Northeastern Const. Co., Charlotte, N. C.

Proposals

ADVERTISEMENT FOR
ALTERATIONS AND ADDITIONS
MAIN SCHOOL BUILDING, MANUAL TRAINING AND INDUSTRIAL SCHOOL FOR COLORED YOUTH,
BORDENTOWN, N. J.

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct New Additions and Alterations to the present Main School Building at the Manual Training and Industrial School for Colored Youth, Bordentown, N. J., will be received by the Architects at the office of the Commissioner of Education, State House, Trenton, N. J., on June 28, 1922, at 3 P. M., Daylight Saving Time.

The work for which proposals are hereby invited covers the Alterations and Construction of two additional wings to the present Main School Building of the Manual Training and Industrial School for Colored Youth at Bordentown, N. J., complete, with Electric, Plumbing, Heating and Ventilating Equipments.

The additions consist of a wing at each end of present building extending out about 37 feet and being about 80 feet wide, being two stories and basement high. New Class Rooms will be placed in present Auditorium and a new entrance Portico constructed. The buildinig will have fireproof corridor and stair halls with the class room floors and roofs of heavy timber construction.

Bids will be received for the work under four separate contracts as follows:

1. For General Construction, which includes all Masonry, Carpentry, Steel and Iron, Roofing, Painting, and all work kindred thereto.
2. For Plumbing and Gas Fitting and all work kindred thereto.
3. For Heating and Ventilating and all work kindred thereto.
4. For Electrical Work and all work kindred thereto.

The right is reserved to accept or reject any or all proposals and to waive informalities. All bids must be in sealed envelopes endorsed "Proposal for Alterations and Additions, Bordentown Industrial School," and stating the branch of work covered. No bid will be considered unless accompanied by a certified check to the order of the State of New Jersey, in the amount of 5% of the bid or bond in like amount binding the bidder to execute a contract if awarded to him. The terms of proposal with Surety required are fixed by the specifications.

Copies of the drawings and specifications will be on file at the office of the Architects for the purpose of estimating. A limited number of copies of the plans and specifications will be loaned to the prospective bidders on deposit of a certified check to the order of the State of New Jersey in the sum of $25.00. These plans may be obtained by application of Guilbert & Betelle, Architects, 546 Broad St., Newark, N. J. If plans and specifications are returned on or before the submission of estimates the check will be returned, but should the plans and specifications be not returned the deposit may become forfeited.

GUILBERT & BETELLE
and
ARNOLD H. MOSES,
Associate Architects.

Dated: June 10th, 1922.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 10, 1922.—SEALED PROPOSALS will be opened in this office at 3 P. M., July 10, 1922, for construction of the United States Post Office and Custom House at Apalachicola, Fla. Drawings and specifications may be obtained from the Custodian of the site at Apalachicola, Fla., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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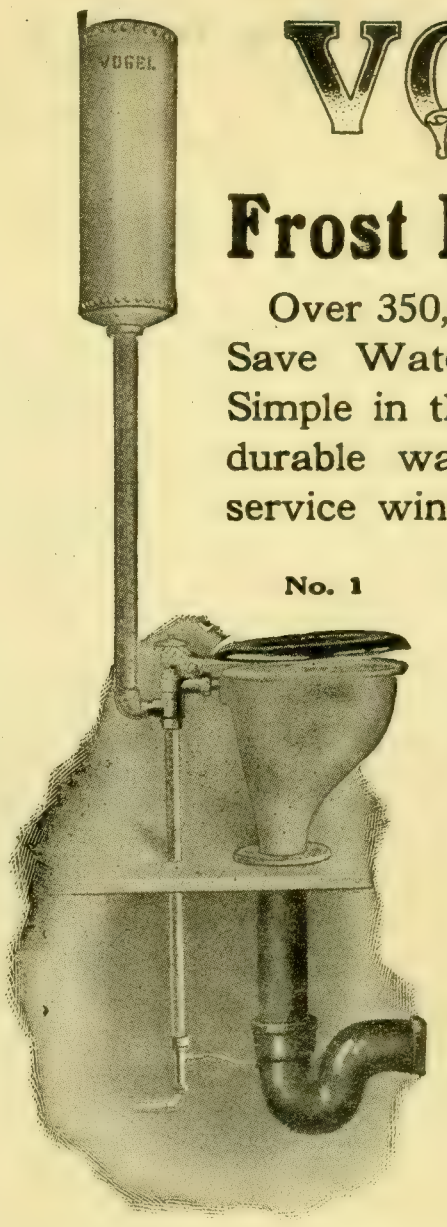
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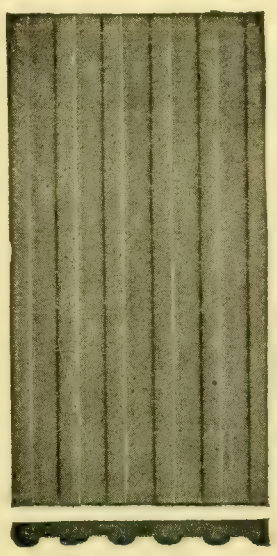
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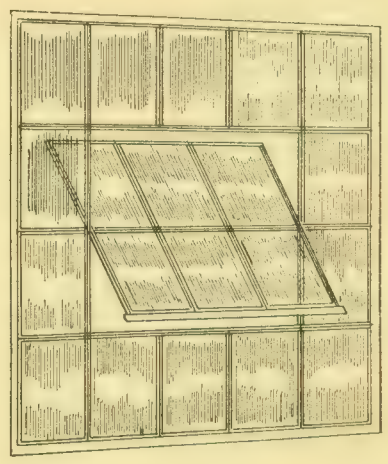


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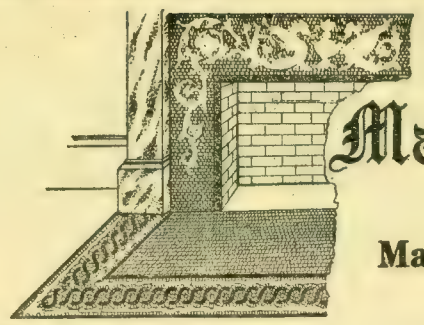
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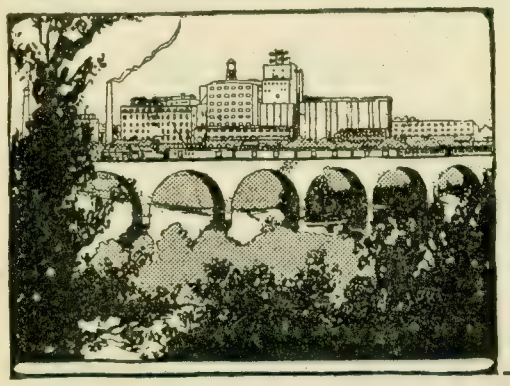
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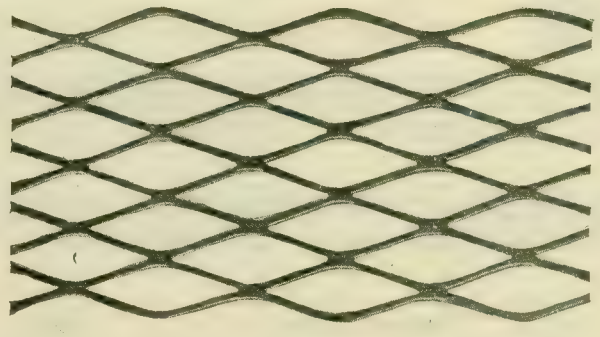
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 26

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June 28, 1922

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As The Editor Sees It

DISCUSSING Reduction of Unemployment in the Construction Industry, A. P. Greensfelder, Secretary, Fruin-Conlon Contracting Co., St. Louis Mo., contributed valuable and timely data for consideration in an address read at a recent meeting of the National Federation of Construction Industries. Mr. Greensfelder writes:

One of the most costly and serious problems of our whole construction industry is due to unemployment—both of capital and labor. We are apt to think of idleness only in terms of man power, but as capital can only produce and wealth increase by the application of that man power, it behooves us to realize that their interests are common. We must further remember that unless the laborer earns, he has but little to spend and his demand for goods and shelter produce the insistence for the supply which capital helps create.

The construction industry of all our industries, next to agriculture, has been possibly the least concerned and yet the most affected by unemployment. We seem, until quite recently, perhaps, to have taken it for granted that because field construction is largely conducted out of doors, it must necessarily be governed by the weather and conditions incident thereto. Summer sunshine has been and still is overcapitalized. Because field construction seldom has a roof over its factory we fail to view it as a producing factor of the same potentiality to equal capital invested within an enclosure.

When a construction project is idle for any cause the invested capital is idle, the allotted workers are unemployed and the producers and conveyors of construction materials are seriously interrupted. The total cost of this unemployment is a vast sum necessarily added as a wasteful annual expense to the whole industry and each integral part. A valuable attempt to measure such waste in the building industry is noted in the study initiated by Secretary Hoover, through American Engineering Council last year. Mr. Sanford E. Thompson, Consulting Engineer of Boston, who applied the principles of industrial waste to the building business in such printed report, calls particular attention to this irregular employment and the expenses caused thereby. He states that due to an average of only 190 working days a year for field construction the loss to the nation from the cause alone is approximately $100,000,000, annually. If we add to this the interest during construction, the idle labor material and transportation facilities of dependent quarries, mills, shops and ways, the total loss is enormous.

Can the construction industry be so blind to its own self interest as well as its duty to the nation not to realize the necessity of reducing this burden? Cannot brick makers, steel producers, railroad men, designers, contractors and laborers realize that continuous employment means better annual earnings and yet cheaper production? Cheaper prices mean greater demand and this in turn enables continuous employment. Reduced costs per cubic foot of structures, be they stores, schools or houses, means increased volume of demand. Homes at $1,000 per room will create more than twice the demand than the same values at 50 per cent. increased cost.

Having diagnosed the disease and the public burden thereof, let us study the causes and endeavor to provide available remedies. The principal causes are (1) seasonal fluctuations, (2) bad weather, (3) labor strikes and lockouts, (4) inefficient management and (5) restricted production. Careful analysis of each of such causes, resolute endeavors to correct them and an earnest spirit of co-operation will gradually produce results. Some results of large measure can undoubtedly be secured within one year and others will rapidly follow as the movement progresses. Seasonal fluctuations are largely because of old-fashioned customs. Before the days of mechanical field equipment, construction progress throughout the year was seldom contemplated. Today such reasons do not control. Land values and production demands for floor space now outweigh minor variations in seasonal costs and a proper educational campaign through concerted nationally directed advertising can do wonders.

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Bad weather is purely a relative condition and much good can be mixed with it. Ordinary winter temperatures can be easily moderated by the judicious application of heat and wind, snow and rain can be excluded by canvas and common sense. If $1,500 is a fair annual wage for skilled labor this may be earned at the rate of $7.50 per day for 200 working days or at $5.00 daily for 300 days. Mr. Henry Ford had thoroughly demonstrated the latter rate is sufficient, highly profitable to himself and tremendously useful to the public. Competent labor can be attracted to low turn-over industries when fairly paid and cared for. Bricks, steel and lumber do not freeze—only fingers and mortars for an average of twenty days and the cost of applying gloves and anti-freezing remedies is relatively small in most United States latitudes as compared to the "unearned increment" lost in waiting. The cold weather differential is only a few per cent. and can be readily offset by reduced prices or one-half hour longer labor per day for winter months.

Labor strikes and lockouts are human factors needing the sunlight of broad self-interest, food of facts and careful competent and co-operative nursing to cure them of their cancers. The National Board for Jurisdictional Awards in the Building Industry, so well described in the Nation's Business for April by President Bent of the Associated General Contractors, is evidence of possibilities and practical results in eliminating strikes. Industrial labor boards in factory, field and nation can largely reduce unemployment due to labor disputes. It is estimated that 500 strikes and lockouts a year waste 3,000,000 man days alone in field construction, exclusive of probably larger figures for production of construction materials. Employers and employees should jointly study the labor problems and their true relationships if we are to progress in skill, safety and satisfaction in this industry. The public is learning that it pays the "bill of costs" for every effective "bill of rights," and as soon as it obtains the correct figures it is beginning to demand each industry must either arbitrate all its labor differences or it will be done for them in legalized industrial courts. Let us lead the way, and raise facts instead of factions in the construction industry.

Inefficient management is a real tangible producer of unemployment and is a man-sized job to tackle. Production analysis may be a new term to the construction industry, but it is a vital element in the elimination of waste. Production schedules planning, routing and expediting materials so as to avoid delays and shut-downs are real responsibilities of managers. Proper maintenance of plant and machinery not only prevent break downs and labor lay-offs, but pay dividends well worth the earning. Employment managers must be made if they cannot be found, because labor turnover rates in the industry are a disgrace not only due to the previous cases, but due to the irate desire of pin-headed bosses to exercise and show their authority. Transferring men to the right jobs is better than firing, and nothing is quite as needless and expensive as training and hiring. Let us determine a fair day's work for a fair workman and a fair day's pay will soon take care of itself.

Restricted production is largely the result of unenlightened labor. Discouraging experiences of piece work, price reductions and replacement by machinery without consideration of the employer, has undoubtedly had its effect on labor in its attempt to avoid unemployment by restricting production. Discouragement of apprentices, restricting output of skilled men and reducing dilution by unskilled labor all have been influenced by the dread or fear of unemployment. Organizations of labor are perhaps more often formed to combat such practices than to protect themselves against wage reductions, but that they have gone to the other extremes in many cases, especially in the last few years, is needless to say. Vocational training simultaneous with apprenticeship, profit sharing, insurance for accident, illness, unemployment and old age are possibly measures for investigation in order to remove the fear of hunger and instill a recognition of real pride and craftsmanship both in quantity and quality production.

The National Federation of Construction Industries, as an organization, has a real function in such an enterprise. They must blaze a trail and solve such problems from an industry standpoint. They must bury the desire of any individual element to shine at the expense of others, but must form a governing council equally representative of the designers, constructors, material producers and fabricators and possibly labor. The voting power of each group must be equal, the leadership automatically revolving through each group and this would develop a sense of equal responsibility, justice and desire to raise the standards of the industry as can be accomplished in no other way.

The Federation has served a real purpose in arousing a sense of true proportion in this the second industry in our Nation, and President Trigg has merited much praise for his arduous and useful efforts to raise this child of Industry. Now, however, since it is in the prime of its youth, let it go forth to bigger things, better deeds and a brighter future.

As a part of a nation-wide campaign designed to foster the use of more permanent materials in building, the Copper and Brass Research Association has announced a contest for school children and others, offering cash prizes for the best photograph showing the relative durability of materials which go into the construction of American homes.

Some idea of the cost to this country of the practice of building for speculative profit rather than for use is evidenced by the result of a statistical study just completed by the Copper and Brass Association. The fire loss on the 21,000,000 American homes, insured as they are for a total of $91,700,000,000, is about $35,000,000 a year, based on figures for 1918 to 1920, inclusive. The rust bill, covering the renewal of sheet metal work, principally leaders and gutters, plumbing pipe, hardware, etc., is annually twenty times that sum.

The effort to show the public the wastefulness of the use of materials which need early and frequent replacement, is a part of the present intensive campaign of the Copper and Brass companies of the country to increase the use of those metals in domestic consumption. The photographic contest is a part of that campaign.

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(Continued on page 419)



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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (20), West side Cresheim road, between Mt. Pleasant avenue and Sedgwick street, $134,000. Owner, Frank Datesman, 815 East Chelten avenue, Philadelphia. Brick, 2 stories (18) 16x32 feet, 12x10 feet, (1) 20x42 feet, and (1) 16x42 feet, hot water heating. Owner will build.

Drug Store (alts. and add.), Kensington avenue and Tioga street. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, John J. Armstrong, on premises. General alterations and addition. Architect ready for bids due July 1st.

Church and Rectory, Midvale avenue near Ridge avenue, East Falls, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Bridget's Roman Catholic Church, care of Rt. Rev. W. J. Walsh, 3865 Midvale avenue, East Falls. Stone, slate and lead roofs. Architect taking bids due July 8th at noon.

Office Building, Fifteenth and Race streets, Philadelphia. Architects, Marshall & Fox, Chicago, Ill. Owners, Reformed Church Board of America, premises. Brick, cut stone, concrete and steel, 13 stories, 120x150 feet, slag roof, concrete floors. Architects taking bids due July 6th.

Residence (alts. and add.), 808 North Sixty-third street, Philadelphia. Architect, J. W. Reppenhagen, 23 South Fifty-second street, Philadelphia. Owner, Sarah Eppler, on premises. Brick, 3 stories, 23x34 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Architect taking bids due June 28th.

Factory, Southwest Corner Thirty-third and Arch streets, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Lyman A. Prouty Co., on premises. Brick, concrete and steel, 6 stories. Plans in progress. Will be ready for bids in about three weeks.

Rectory, Fifty-fourth and Diamond streets, Wynnefield, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Barbara's Roman Catholic Church, care of Rev. Joseph L. N. Wolfe, on premises. Stone, 2½ stories. Plans about completed. Architect will take bids in two weeks.

Factory Building, Wayne Junction, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, H. S. & L. F. Levy, on premises. Reinforced concrete and steel, 4 stories, 60x105 feet, irregular. Preliminary plans in progress.

Twin Residence and Garage, Germantown, Philadelphia. Architect, William Macey Stanton, 1310 Arch street, Philadelphia. Owner, name withheld. Hollow tile and stucco, 3 stories, 53x44 feet, and 1 story, 18x22 feet, slate roof, hardwood and cement floors, hot water heating, electric lighting, tile work. Architect is taking sub-bids.

Bungalow, Fox Chase, Philadelphia. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Paul Brotherick, 1938 Moore street, Philadelphia. Frame, 1½ stories, 30x35 feet, asbestos shingle roof, hardwood floors, hot water heat, electric lighting, tile work. Owner is taking sub-bids.

Bungalow, Olney, Philadelphia. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, F. M. James, 220 Wellings avenue, Olney, Philadelphia. Brick, 1½ stories, 32x48 feet, shingle roof, hardwood floors, hot water heat, electric lighting ,tile work. Owner is ready for general bids.

Apartment House, Spruce street, between Fiftieth and Fifty-first streets. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel, cut stone, castone, 4 stories, 100x133 feet, slag roof, oak, pine, mineral, tile and linoleum floors, vapor heat, electric light, metal lath, tile and marble work, ornamental iron work, screen awnings. Architect is taking sub-bids.

Residences (59), Rockland, C and D streets, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, I. Finestone, 1018 East Tioga street, Philadelphia. Stores and dwellings, (12) 16x60 feet, residences, (47) 16x48 feet, brick, 2 stories, slate and slag roof, hardwood floors, hot water heat, electric light, tile work, hollow metal skylights, metal ceilings, plumbing. Owner is taking sub-bids.

Residence, Second and Wyoming avenue, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, E. Mallon, stationary engineer, 2700 North Fifth street, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, pine floors, hot water heat, electric light, marble work, flush bulks. Owner is taking sub-bids.

Residence, Sedgwick avenue, Germantown, Philadelphia. Architect, William Macey Stanton, 1310 Arch street, Philadelphia. Owner, Herman Horn, Jr., 126 Boyer street, Germantown. Stone, 2½ stories, 41x43 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Architect will build.

Residences (12), Eighty-eighth and Tinicum avenue, Philadelphia. Architect, Reuben Beard, 2120 North Lambert street, Philadelphia. Owner, James A. Lavan, care of B. Leider Co., 1427 Fairmount avenue. Brick, 2 stories, 14x26 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner ready for sub-bids.

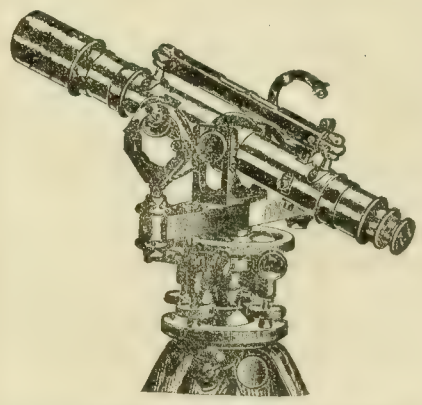
Residence (alts. and add.) to Apartments, 1328 Pine street. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Edward J. DuMee, Merion, Pa. General alterations and additions. Plans in progress. Architect will take bids in a few days.

Hall, Roxboro, Philadelphia. Architects, Platt & Talley, 1627 Sansom street, Philadelphiai. Owners, Roxboro Lodge, No. 66, I. O. O. F., Roxboro, Philadelphia. Brick, cut stone and steel, 3 stories, 88x37 feet, and 59x35 feet, slag and slate roof, concrete and pine floors, hollow tile, waterproofing and dampproofing, ornamental iron work, bond, rolled steel skylights and sash, metal lath, tile work. Architect taking bids due July 5th.

Garage, 4941-43 Lancaster avenue, Philadelphia. Architect, private plans. Owners, Tate Brothers, 4854 Lancaster avenue, Philadelphia. Brick, 1 story, 141x30 feet, slag roof, cement floors, roof ventilators, steam heat, electric light, tile work, hollow metal skylights, ornamental iron work. Owners taking bids due June 30th.

Residence (alts. and add.), 2135 Spruce street, Philadelphia. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owner, name withheld. Brick, 1 story, 31x19 feet, slag roof, oak and pine floors, hot water heat, electric light. Architect taking bids due as soon as possible.

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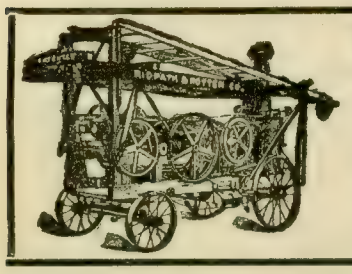
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phia. Owners, Board of Education, Nineteenth above Chestnut street. Electric work, painting (interior and exterior), cement work, etc. Owners taking bids due July 6th.

Residence (alts.), 5121 Walnut street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Dr. George W. Raiciff, care of architect. Brick, 2 stories, 16x20 feet, slag roof, pine floors, general alterations, electric work, painting, glazing, plate glass. Architect taking bids due as soon as possible.

Carroll School, Salmon, Auburn and Edgemont streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Brick, steel, cut stone and granite, 2 stories, 143x73 feet, composition roof, cement, maple and oak floors, metal lath, marble work, metal weather strip, hollow metal doors, bond, waterproofing, terra cotta, iron work (heating, lighting and plumbing, separate bids). Owners taking bids due July 6th.

Storehouse for Inflammables, Spec. 4670, Navy Yard, Philadelphia. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Removing and reerecting building, corrugated iron, 1 story, 80x200 feet. Lowest bids submitted: Charles Gilpin, Harrison Building, $19,496, alternate $20,948; George H. Evans, Inc., 109 North Thirteenth street, $31,935, alternate $32,635.

Office and Sales Building, Northwest Corner Thirtieth and Walnut streets. Architects, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, Westinghouse Electric Co., Widener Building, Philadelphia. Brick, steel, limestone and granite, 10 stories, 191x95 feet, slate and tile roof, concrete floors, safety treads, roof ventilators, waterproofing, floor hardener, bond, rolled steel and kalamein doors, rolled steel sash, tile, marble and terrazzo, metal lath. Engineers taking bids.

Apartments (10), West side Broad street, North of Chelten avenue, $30,000. Architect, private plans. Owner, B. L. Shapiro, 6311 North Broad street, Philadelphia. Brick, 3 stories, 124x22 feet, 79x8 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (62), Fifty-fourth and Oxford streets, Philadelphia, $238,000. Architect, E. Allen Wilson ,1208 Chestnut street, Philadelphia. Owner, James S. Larzelere, Land Title Building, Philadelphia. Brick, 2 stories, 18x32 feet, 16x32 feet and 16x30 feet, 13x7 feet, slag roof, hot water heating. Owner will build.

Residences (2), Cottman street, East of Montour street, $5,000 each. Architect, private plans. Owner, John H. Bauer, 5343 North Fifth street, Philadelphia. Brick, 2 stories, 15x54 feet, slag roof, hot water heat, electric light. Owner will build.

Office Building and Power House, Southwest Corner Fifteenth and Chestnut streets, Philadelphia. Architects, Hoffman, Henon, Inc., Finance Building, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets. Brick, terra cotta and cut stone, 20 stories, 138x79 feet, slag roof, concrete floors, hollow tile, waterproofing, ornamental iron work, iron stairs, floor hardener, bond, kalamein doors, rolled steel skylights, tile, marble and terrazzo, metal lath, steam heat, electric lighting (bids on steel, pound price, please note). Architects taking bids due July 3rd.

Residence (alts.), 209 Rex avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Samuel Morris, on premises. Carpentry, mill work, hot water heat, electric work, plumbing, tile and marble, asbestos shingle roof, hardwood floors, painting, plastering. Architect is ready for sub-bids.

Store Building, 3621 Woodland avenue, Philadelphia. Architect, private plans. Owners, Dolbey & Co., 3613 Woodland avenue, Philadelphia. Brick, cut stone, 3 stories, 48x14 feet, slag roof, pine and maple floors, dumb waiter, electric lighting. Owner taking bids due July 1st.

Residences (2), Wissahickon avenue, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, J. Feitchik & Wissman, care of architect. Stone, 2½ stories, 39x27 feet, slate roof, oak and pine floors, hot water heat, electric lighting. Architect taking bids due June 29th.

Post Office (alts.), Ninth and Market streets, Philadelphia. Owners, United States Government, care of Custodian of Site, Ninth and Market streets. Changes and repairs to partitions. Owners taking bids due July 5th.

Residences (29), North side Belfield avenue, between Seventeenth and Eighteenth streets, $204,000. Owner, John M. Hendricks, 1405 Real Estate Trust Building. Brick, 2 stories, 16x40 feet and 12x20 feet, slag roof, oak and yellow pine floors, hot water heating, electric lighting. Owner will build.

Residences (12), North side Ridley street, West of Twentieth street, $3,600. Architect, private plans. Owner, C. A. Apples, 1509 Sixty-eighth avenue, Philadelphia. Brick, 2 stories, 18x29 feet, hot water heat, electric light, slag roof. Owner will build.

Residences (4) (alts.), 1206-08-10-12 St. James street, $3,000. Architect, private plans. Owner, L. Hastings Alexander, 208 South Twelfth street, Philadelphia. General alterations. Owner will build.

Residence, Wissahickon avenue and Park Lane, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, A. Jamison, care of architect. Stone, 2½ stories, 35x25 feet, slate roof, oak and pine floors, hot water heating, electric lighting. Architect taking bids due June 29th.

Residences (32), Delphine street, West of Second street, $112,000. Architect, private plans. Owner, Emil P. Stahl, 5209 North Third street, Philadelphia. Brick, 2 stories, 14x32 feet, slag roof, hot water heat, electric lighting. Owner will build.

Residences (2), South side Princeton street, East of Jackson street, and (2) Princeton, East of Ditman street, $5,500 each. Architect, Durham Brothers, 1609 Sansom street. Owner, James W. Orr, Bustleton Pike, Philadelphia. Brick, 2 stories, 18x33 feet, hot water heat. Owner will build.

Garage, East side Terrace street, North of Dawson street, $4,000. Architect, private plans. Owner, Martin Kelly, 2710 West Huntingdon street, Philadelphia. Brick, 1 story, 18x88 feet, slag roof, cement floors, electric lighting. Owner will build.

Residences (6), North side Tinicum avenue, East of Eighty-third street, $2,200 each. Architect, private plans. Owner, George Kyle, Seventy-third and Gray's avenue, Philadelphia. Brick, 2 stories, 14x32 feet, slag roof, hot air heating. Owner will build.

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Apartment (alts. and add.), 2311 Green street, Philadelphia, $3,000. Architect, private plans. Owner, E. S. Kimball, 1627 Green street, Philadelphia. Brick, 2 stories, 14x16 feet, slag roof, oak floors, electric lighting. Owner will build.

Residence, North side Shelmire street, East of Palmetto street, $4,000. Architect, private plans. Owners, Edwin Davis and Robert Kochersperger, 7434 Palmetto street. Frame, 1 story, 25x43 feet, 12x6 feet, shingle roof, oak and pine floors, electric lighting. Owners will build.

Residences (10), 7015-17-23-25-31-41 Cottage street, $4,500. Architect, private plans. Owner, Walter G. Costello, 7002 Hegerman street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residence, Northeast Corner Eighth and Louden streets, $7,000. Architect, private plans. Owner, W. Fischer's Sons, Eighth and Rockland streets, Philadelphia. Brick, 2 stories, 17x45 feet, slag roof, oak and pine floors, hot water heating. Owners will build.

Store (alts.), 1 East Abington avenue, Philadelphia, $2,000. Architect, private plans. Owner, Charles V. Rorer, 8101 Germantown avenue, Philadelphia. General interior alterations. Owner will build.

Residences (2), Devereaux street, West of Gillespie, $4,000 each. Architect, private plans. Owner, George Warner, 6134 Jackson street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 43 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (alts. and add.) to Apartments, 1617-19-21 Summer street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Edward J. DuMee, Merion, Pa. Geneal alterations and additions. Architect will take bids in a few days.

Residence (alts. and add.) and Garage, 112 East Chestnut avenue. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Edward B. Robinette, on premises. General alterations to residence, garage, stone, 1 story, 35x22 feet, slate roof, cement chitect will be ready for bids in a few days.

floors, hot water heat, electric lighting. Ar-

Bids for Street Paving and Improvement opened June 19, 1922. Schedule "A," grading Bouvier street, from Sixty-eighth avenue to Haines street, P. McManus, Inc., 224 North Thirty-second street, Philadelphia, $594.08, low bidder. Sixty-fifth street, Chester avenue to Windsor street; low bidder, A. A. Pastori, 5904 Woodland avenue, Philadelphia, $760.93. Stillman street, Thompson to Master; low bidder, George A. Mahon, Seventy-second avenue to Ogontz avenue, $3,875.80.

Schedule "B" Asphalt Paving—Low bidders: Abington street, Germantown avenue to Roanoke street, $4,743.28; Bonsall street, Wolf street to Passyunk avenue, $7,229.86; Godfrey street, Twentieth to Twenty-first street, $11,930.76; Hope street, Louden to Rockland street, $3,229.00; Louden street, Second to Third street, $5,640.20; Opal street, Sixty-sixth to Sixty-seventh avenues, $4,804.18; Tower street, Roxborough to Jamestown avenue, $11,586.55; Water street, Clearfield to Lippincott, $1,717.47; Woodlawn avenue, from Ardleigh to Anderson, $6,079.48; Barber Asphalt Paving Co., Land Title Building, Philadelphia. "B" street, Ruscomb to Roosevelt Boulevard, $3,155.85; Eastern Paving Co., Colonial Trust Building, Philadelphia.

Schedule "C"—Redressed granite block paving, Twenty-second street, Wood to Locust street, $41,574.54. Low bidders: Citrona & Mezzola, Lincoln Building, Philadelphia.

Schedule "D"—Extension and improvement of Delaware avenue; Cittrona & Mezzola, Lincoln Building, Philadelphia, $153,903.61.

Schedule "E"—Country Road Improvement: Baines street, Pearson to Fullmer street, $10,238.50; Mitchell street, Parker to Cinnaminson street, A. J. Henderson, 327 South Twentieth street, Philadelphia; Ontario street, Balfour to Bath street, $3,585.75, M. J. McCrudden, Real Estate Trust Building, $3,585.75. Improvement of Bensalem Avenue Bridge, $11,348.00; James Devlin, Jr., Real Estate Trust Building, Philadelphia.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building (add.), 432-42 Lombard street, Philadelphia, $8,800. Architect, private plans. Owner, P. Carner, on premises. Brick, third-story add., 70x24 feet, slag roof, electric lighting. Contract awarded to F. Lucci, 1603 Ellsworth street, Philadelphia.

Store, 223 Callowhill street, Philadelphia, $6,750. Owner, Jacob Waxman, 221 Callowhill street, Philadelphia. Brick, 1 story, 24x37 feet, 20x40 feet, electric lighting. Contract awarded to B. Bornstein, 1319 Wingohocking street.

Building (alts.), Northwest Corner Huron and Moreland avenue, $3,000. Architect, private plans. Owner, F. C. Henry, on premises. General interior alterations. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

Garage, 6703 Lincoln Drive, Philadelphia, $2,000. Architect, private plans. Owner, E. J. Hertz, on premises. Stone, 1 story, 21x25 feet, cement floors. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

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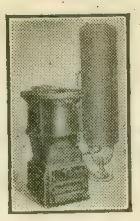
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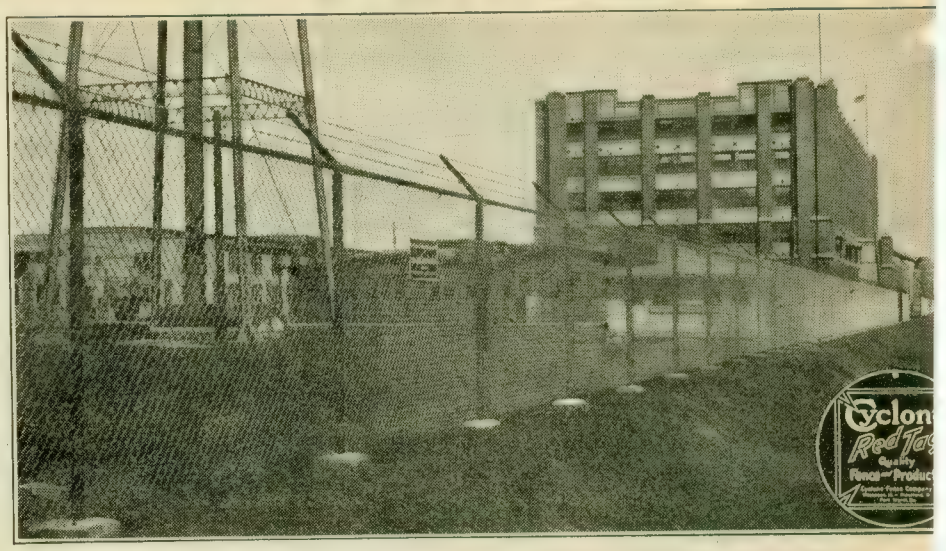
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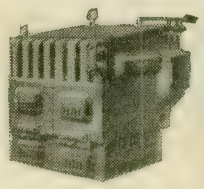
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Building (alts.), 1635 Columbia avenue, Philadelphia, $9,000. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Adolph Friedman, care of architect. Carpentry, mill work, plastering, slag roof, cement floors, metal ceilings, tile work. Contract awarded to Frank & Kaiser, 1522 South Sixth street.

Sales and Service Building, Broad and Allegheny avenue, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Thomas B. Martindale, Broad and Allegheny avenue. Brick, cut stone and steel, 1 and 2 stories, 265x100 feet, slag roof, monolithic cement floors, tile and marble, hollow metal skylights, fire doors, bond, iron work (heating, plumbing and electric work reserved). Contract awarded to Bowden Const. Co., 1935 Chestnut street.

Race Sub-Station, Northwest Corner Fifty-sixth and Race streets, Philadelphia. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Company, 1000 Chestnut street, Philadelphia. Brick, steel and cut stone, 1 story, basement, 70x62 feet, slag roof, concrete floors, steam heat, marble work, rolled steel sash and skylights, waterproofing, floor hardener, iron work. Contract awarded to F. M. Harris Co., 1520 Parrish street.

Building, 1113 Walnut street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Benjamin S. Victor, 1115 Walnut street, Philadelphia. Brick, cut stone and granite, 3 stories, 133x21 feet, slag roof, pine and cement floors, steam heat, electric lighting, tile work, hollow metal doors, bond, iron work. Contract awarded to John Schnabel, Inc., Denckla Building.

Building, Broad and Lehigh avenue, Philadelphia. Architect, private plans. Owners, Traylor Eng. Co., on premises. Reinforced concrete and brick, 8 stories and basement, 125x205 feet, slag roof, concrete floors, elevators, steam heat, electric light, rolled steel sash and skylights, fire doors, iron work. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Club House (alts.), Camac and St. James streets, $9,000. Architect, Albert Kelsey, Perry Building, Philadelphia. Owners, Franklin Inn Club, on premises. Steam heat, electric light, tile and marble, metal lath, slag roof, oak and pine floors, plastering, mill work. Contract awarded to Harry Platt, 4543 North Hutchinson street.

Bungalow, Roxborough, Philadelphia, $10,400. Architect, private plans. Owner, J. H. Clevenger, 4328 Lauriston street, Roxborough. Stone, 1½ stories, 45x43 feet, slate, shingle roof, pine and hardwood floors, hot water heat, electric lighting. Contract awarded to Heavner & Guthridge, Norristown, Pa.

Curbing, Etc., Spec. 4625, Marine Barracks, Navy Yard, Philadelphia. Architect, private plans. Owners, United States Governvent, care of Rear Admiral F. R. Harris, Navy Yard. Concrete drains and concrete or brick catch basins, 770 feet of concrete curbing, 770 feet of stone curbing, 4-inch tile drains. Contract awarded to Golove & Lewis, Real Estate Trust Building.

Mill Building, Little Venice above Green Lane, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Kaufman Plush Co., on premises. Brick and steel, 5 stories, 64x61 feet, slag roof, cement floors, waterproofing, iron work, bond, metal lath. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Residence, Lincoln Drive and McCallum street, Philadelphia. Architect, Walter K. Durahm, 323 Walnut street, Philadelphia. Owner, Bruce McFadden, 1400 Frankford avenue, Philadelphia. Stone, 2½ stories, 36x64 feet, slate roof, oak, pine and composition floors, hot water heat, electric lighting, tile and iron work. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Garage, rear of 724 Snyder avenue, Philadelphia. Architect, private plans. Owner, H. Slutz, 2029 West Norris street, Philadelphia. Brick, 1 story, 16x46 feet, slag roof, cement floors, electric work, hollow metal skylights, carpentry, painting, glazing. Contract awarded to A. S. Shafer, 2122 South 19th street, Philadelphia.

Store and Warehouse (add.), 52 North Third street, Philadelphia, $16,800. Architect, private plans. Owners, Samuel Frank & Son, on premises. Brick, 2 and 3 stories, 20x80 feet, 20x30 feet sla, groof, yellow pine floors, electric work, steam heat. Contract awarded to S. Rothblatt, 831 South Third street, Philadelphia.

Warehouse, 1530-32 Parrish street, Philadelphia, $14,000. Architect, private plans. Owner, H. C. Bridgeford, 1530 Poplar street, Philadelphia. Brick, 2 stories, 40x60 feet, slag roof, cement floors, electric work. Contract awarded to J. Walters, 1536 Stiles street, Philadelphia.

Store and Two-Family Dwelling (add. and alts.), 426 Pine street, $7,200. Architect, private plans. Owner, Max Stadler, Pennsylvania Building, Philadelphia. Brick, 17x11 feet, slag roof, oak and pine floors, electric work. Contract awarded to S. Lazarus, 4914 Parkside avenue, Philadelphia.

Garage, East side Fifty-second street, North of Harlan street, $15,000. Architect, private plans. Owner, Harry C. Hood, 1438 North Fifty-second street, Philadelphia. Brick, steel, 2 stories, 34x52 feet, slag roof, cement floors, steam heat, electric light, skylights, ventilators, steel sash. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Residences, West side Rising Sun avenue, North of Unruh street, $14,000. Architect, private plans. Owner, Thomas Paige, 2309 East Clearfield street, Philadelphia. Brick, 2 stories, 16x52 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Walter C. Johnson, 4601 Ella street.

Coal Pocket, South side High street, East of Bellfield avenue, $10,000. Architect, private plans. Owner, Martin F. Connor, 573 East Haines street, Philadelphia. Concrete pockets. Contract awarded to D. T. Connor, 573 East Haines street, Philadelphia.

Residence, Southeast Corner Sharpnack and Ross streets, Philadelphia, $9,000. Architect, private plans. Owner, B. Udis, 154 Sharpnack street, Philadelphia. Brick, 2 stories, 15x37 feet, 12x29 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to G. Korth and N. Weiss, 358 Gladstone street.

Buildin g(add. and alts.), 729 North Forty-first street, Philadelphia, $8,000. Architect, private plans. Owner, H. E. Townsend, on premises. Brick, 18x10 feet, 18x2 feet, 1 story add., slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to A. E. Eichfeldt, 5140 Osage avenue, Philadelphia.

Residence, 5430 North American street, Philadelphia, $6,100. Architect, rpivate plans. Owner, Charles Meyer, 5518 North Franklin street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hot water heat, electric light. Contract awarded to Walter J. Erwin, 3532 North Fifteenth street.

Open Shed, Ford road, East of Monument avenue, $6,000. Architect, private plans. Owners, Lusso Brothers, 2805 Fairhill street, Philadelphia. Frame, 47½x96 feet, shingle roof. Contract awarded to Edward C. Bender, 6104 Torresdale avenue.

Residence, 993 North Fifth street, Philadelphia, $6,600. Architect, private plans. Owner, Dr. M. Markowitz, on premises. Brick, 2 stories, 16x46 feet, slag roof, hot water heating. Contract awarded to Max Chipin, 1024 Rockland street, Philadelphia.

Residences (2), North side Tyson street, West of Cottage, $4,500. Architect, private plans. Owner, William J. Neil, 2448 Memphis street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heating. Contract awarded to Walter G. Costello, 7002 Hegerman street.

Building (fire repairs), Southwest Corner Ninth and Poplar streets, $4,800. Architect, private plans. Owner, A. M. Christy, 302 Chestnut street, Philadelphia. General fire repairs. Contract awarded to Charles H. Shuster, 1950 North Watts street.

Residence, South side Disston street, West of Erdrick, $5,000. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, H. Seddon, 3406 Torresdale avenue, Philadelphia. Brick, 2 stories, 27½x46 feet, slag roof, hot water heating. Contract awarded to James W. Orr, Bustleton Pike, Philadelphia.

Ice Storage Building (alts.), 1150 Germantown avenue, $5,000. Architect, private plans. Owners, Union Ice Co., on premises. Carpentry, mill work, painting, glazing. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Warehouse, 312 South Fourth street, $27,000. Architect, I. W. Levin, 1001 Chestnut street. Owner, Isadore Fischman, 816 South Fifth street, Philadelphia. Brick, 3 stories, 21x182 feet, slag roof, cement floor, steel sash, steam heat, electric light, elevator. Contract awarded to Harry Miller, 427 Catharine st., Philadelphia.

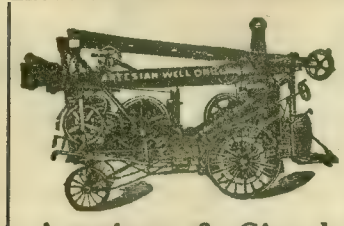
Factory (add.), 139 North Second street, Philadelphia, $16,000. Architect, private plans. Owner, I. West, on premises. Brick, 4 stories, 19x47 feet, slag roof, maple floors, steam heat. Contract awarded to Cichiny & Smith, Fuller Building, Philadelphia.

Store (add.), 2756 Germantown avenue, Philadelphia, $2,000. Architect, private plans. Owner, R. L. Saunders, 270 Germantown avenue, Philadelphia. Brick, 1 story, 20x10 feet, slag roof, oak and pine floors. Contract awarded to T. Wilkinson, 3639 North Ninth street, Philadelphia.

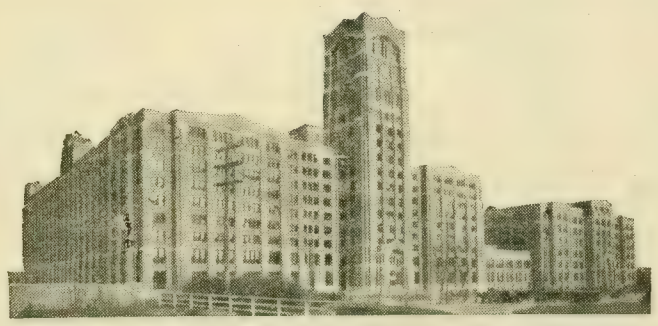
Store and Office (alts.), 3800 North Broad street, Philadelphia, $5,000. Architect, private plans. Owner, Joseph Heim, 4044 North Reese street, Philadelphia. GeGneral alterations, bulk windows. Contract awarded to Thomas M. Keeley, 4411 Germantown avenue.

Store (alts.), 1806 Chestnut street, Philadelphia, $3,500. Architect, private plans. Owner, Abraham C. Bell, 1721 Chestnut street, Philadelphia. New bulk windows, carpentry, mill work. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Office (alts.), 130 South Fifteenth street, Philadelphia, $2,000. Architect, private plans. Owner, Herman C. Rumpp, Southwest Corner Fifth and Cherry streets, Philadelphia. Gen-


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Y. M. C. A., Williamsport, Pa.
Evening News Building, Easton, Pa.

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WAREHOUSE STOCK IN PHILADELPHIA

eral alterations. Contract awarded to John Schnabel, Inc., Denckla Building, Philadelphia.

Garage, 2630 West Oxford street, Philadelphia, $2,000. Architect, private plans. Owner, John Klein, 2632 West Oxford street, Philadelphia. Brick, 1 story, 15x39 feet, cement floor, slag roof. Contract awarded to F. I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Stable, 5013 Gray's avenue, Philadelphia, $3,600. Architect, private plans. Owner, D. Linaugh, 6022 Chestnut street, Philadelphia. Brick, 1 story, 29x29 feet, slag roof, electric work. Contract awarded to William R. Dougherty, 1608 Sansom street.

Residence (alts. and add.), 2650 East Allegheny avenue, $2,700. Architect, private plans. Owner, John Wimarski, on premises. Brick, 1 story, 11x12 feet, slag roof, electric work, yellow pine floors. Contract awarded to S. Putrykonski, 3074 Aramingo street.

Store and Residence (add.), 5017 Market street, Philadelphia, $2,000. Architect, private plans. Owner, Teresa Catalano, on premises. Brick, 2 stories, 16x16 feet, slag roof, yellow pine floors. Contract awarded to D. Marsico, 1406 South Twelfth street, Philadelphia.

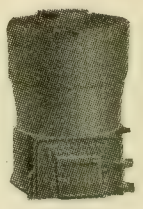
Garage, 5023 North Broad street, Philadelphia, $11,500. Architect, private plans. Owners, Liberty Title & Trust Co., Broad and Arch streets. Brick, second story add., 56x74 feet, slag roof, electric work. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Garage, 2409-11 South Hicks street, Philadelphia, $2,500. Architect, private plans. Owner, N. Drosser, 1512 Ritner street, Philadelphia. Brick, 1 story, 30x19 feet, slag roof, cement floors. Contract awarded to S. Yudowsky, 2240 South Fifth street, Philadelphia.

Building (add. and alts.), 688 North Thirteenth street, $2,400. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owner, Rose Azoff, 953 North Sixth street, Philadelphia. Brick, 1 story, 4x14 feet, general alterations. Contract awarded to H. G. Hammer, 1716 Spring Garden street.

Residence (alts. and add.), 1918 Arch street, Philadelphia, $7,500. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. Maud B. Hamilton, care of architect. Steel and iron work, hardware, plastering, carpentry, mill work, painting, glazing, electric lighting. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Store Building (alts.), 1246 North Broad street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Benjamin Barron, Commonwealth Building, Philadelphia. General alterations,



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plastering, painting, plate glass, electric work, tile work. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Residence, East side Bingham street, South of Bleigh, $3,000. Architect, private plans. Owner, A. M. Hohenstein, 2946 North Palethorpe street, Philadelphia. Brick, 2 stories, 16x36 feet, electric lighting, slag roof. Contract awarded to Arthur Wonder, 3002 North American street.

Public Hall, South side Snyder avenue, East of Fourth street, $40,000. Architect, private plans. Owner, Mr. Alexander, Seventh and Snyder avenue, Philadelphia. Brick, 3 stories, 40x107 feet 6 inches, slag roof, maple floors, steam heat, electric light. Contract awarded to P. Savar, 718 Snyder avenue, Philadelphia.

School, Northeast Corner Seventeenth and Cherry streets, Philadelphia, $20,000. Architect, Walter F. Price, 119 South Fourth street, Philadelphia. Owners, Friends' Select School, 140 North Sixteenth street, Philadelphia. Brick, 4 stories, 21x49 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to R. C. Ballinger & Co., 925 Walnut street.

Residence, East side Island road, South of Penrose Ferry road, $3,500. Owner, Howard B. Shetzline, River road, South of Magazine road. Brick, 2 stories, 16x49 feet, slag roof, electric work. Contract awarded to H. F. Dinkelacker, 1612 McKean street, Philadelphia.

Residence and Store (alts.), 242 South Tenth street, Philadelphia, $3,100. Owner, B. L. Gordon, 1115 Spruce street, Philadelphia. Brick, 2 stories, 10x7 feet, slag roof, electric lighting. Contract awarded to Fred Gittleman, 3437 Ridge avenue, Philadelphia.

Residence and Store (alts.), Southwest Corner Seventeenth and Morris streets, $2,400. Owner, Salvatore Filoro ,1630 Mifflin street, Philadelphia. General interior alterations. Contract awarded to M. Cipriano, 1922 South Seventeenth street, Philadelphia.

PENNSYLVANIA Construction News

Convent, Avoca, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Mary's Roman Catholic Church, care of Rev. H. P. Burke, Avoca, Pa. Brick, 3 stories. Architect taking bids due July 6th at noon.

Residence, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre. Owner, Edward Murphy, 652 South Main street, Wilkes-Barre, Pa. Brick, hollow tile, 2½ stories, 28x41 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. Will be ready for bids in one week.

Warehouse, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Louis Cohen & Son, Wood and South Franklin streets, Wilkes-Barre. Brick, steel, 2 stories, 40x150 feet, concrete foundations, sla groof, pine floors, electric light, insulation. Architects ready for bids.

High School, Freeland, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Freeland School Board, O. W. Fairchilds, secretary, Freeland. Brick, 2 stories and basement, 150x100 feet, slag roof, hardwood floors, electric light, metal lath, tile work, hollow tile, roof ventilators, rolled steel skylights. Owner taking bids due June 30th.

Residence, Clark's Summit, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, Gordon Taylor, care of architect. Frame and stucco, 2 stories, 32x40 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

High School (alts. and add.), Carbondale, Pa. Architect, Lewis Hancock, Mears Building, Scranton, Pa. Owners, Carbondale School Board, D. Parry, secretary, 44 Belmont street, Carbondale, Pa. Brick, stone, 3 stories, 50x120 feet, slag roof, hardwood floors (heating, electric work and plumbing reserved), tile and marble work. Plans in progress.

Store and Apartment (add.), Stroudsburg, Pa. Architects, Edward H. Davis and George M. D. Lewis, Union Bank Building, Scranton, Pa. Owners, Stroudsburg National Bank, care of architects. Brick, 3 stories, 50x80 feet, slag roof, pine floors, heating extension, electric lighting, tile work. Plans in progress.

Residence, Scranton, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, H. L. Hughes, 215 Wheeler avenue, Scranton, Pa. Frame, 2½ stories, 30x34 feet, asphalt shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Garage, Pottsville, Pa. Architect, W. D. Hill, 207 North Centre street, Pottsville, Pa. Owners, Charlton Garage Co., Pottsville, Pa. Brick, 3 stories, 82x113 feet, slag roof, maple floors, hollow tile, metal lath, metal ceilings, gasoline storage system, concrete foundations, vapor heat, electric light, steel sash, Monitor skylights, ornamental iron work. Plans in progress.

Residence, Mayfield, Pa. Architect, Lewis Hancock, Mears Building, Scranton, Pa. Owner, A. H. Lally, Mayfield, Pa. Stucco, frame, 2½ stories, 39x37 feet, Spanish tile roof, hardwood floors, steam heat, electric light, tile work. Plans completed. Architect will be ready for bids in one week.

Drill Shed, Carbondale, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owners, Carbondale Armory, B. F. Denning, Harrisburg, Pa. Brick, steel, 2 stories, 62x82 feet, slag roof, hardwood floors, metal lath, electric lighting, rolled steel sash, iron stairs. Owners are ready for revised bids.

Residence (alts. and add.) and Garage, Elkins Park, Pa. Architect, private plans. Owner, Harry Kelly, Elkins Park, Pa. Hollow tile and stucco, 1 story, 16x20 feet, slate roof, cement floor, electric light, general alterations and additions to residence. Plans in progress. Will be ready for bids in one week.

Residence, Tamaqua, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Edward Reinhart, Tamaqua, Pa. Frame and stucco, 2½ stories, 27x46 feet, shingle roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

Theatre, 718 North Seventh street, Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, People's Theatre Co., Inc., 1767 Broadway, New York. Brick, steel, fireproof, 1 story, 60x120 feet, slag roof, hardwood floors, electric lighting, tile and marble work, roof ventilators, rolled steel skylights. Architects ready for bids.

Store, Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, M. Glazier, 217 East Third street, Bethlehem, Pa. Brick, 2 stories, 25x75 feet, slag roof, pine floors, steam heat, electric light, freight elevator. Architect ready for bids due July 5th.

Club House, Bangor, Pa. Architect, private plans. Owners, Slate Belt Republican Club, care of Welden Williams, Bangor. Brick, 2 stories, 40x120 feet, slag roof, hardwood floors, steam heat, electric light, tile work, hollow tile, roof ventilators. Preliminary plans in progress.

Residence (alts.), New Bloomburg, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Harry Rhinesmith, Rhinesmith Hotel, New Bloomburg. General interior alterations, hot water heat, hardwood floors. Plans in progress.

Residence (add. and alts.), Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, C. P. Hoffman, 112 East Fourth street, Bethlehem, Pa. Frame and stucco, 1 story, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, general interior alterations. Plans in progress.

Residence, Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, care of architect. Brick, 2 stories, 22x35 feet, tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Theatre, New street, Bethlehem, Pa. Architects, A. W. Leh Co., Post Office Building, Bethlehem, Pa. Owners, People's Theatre Co., 1767 Broadway, New York. Brick, steel, fireproof, 1 story, 40x200 feet, slag roof, hardwood floors, electric light, tile and marble work. Plans in progress.

Residence, William Penn Highway, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Mrs. Amelia Wickel, care of architect. Brick, 2½ stories, 28x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids.

Store and Apartment Building, Harrisburg, Pa. Architect, C. Harry Kain, 317 Chestnut street, Harrisburg, Pa. Owner, Eli Goldstein, Sixth and Verboke streets, Harrisburg, Pa. Brick, hollow tile, 5 stories, 124x80 feet, slag roof, oak and yellow pine floors, tile floors, steam heat, electric light, tile work, hollow tile, metal lath, safety treads, stone foundations, hollow metal skylights, store fixtures, waterproofing and dampproofing, floor hardener. Preliminary plans in progress.

School, Stewartstown, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, School Board, Stewartstown, Pa. Plans in progress.

Church, Shiremanstown, Pa. Architect, C. J. Lappley, Cotterel Ebner Building, Harrisburg, Pa. Owners, Methodist Episcopal Church, care of Warren Vaudyher, Shiremanstown, Pa. Stone, 1 story and basement, 40x75 feet. Too early for details.

School, Clark's Summit, Pa. Architect, H. C. Rutherford, 316 Washington street, Scranton, Pa. Owners, Clark's Summit and Clark's Green School District, William Widdowfield, Clark's Green, Pa. Brick, stone, 2 stories and basement. Preliminary plans in progress.

Residence, Scranton, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton, Pa. Owner, T. Dainto, Scranton, Pa. Frame, 2 stories, 32x38 feet, shingle roof, hardwood floors, vapor heat, electric light. Plans in progress.

Church and Parish House, Scranton, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton. Owners, Holy Trinity Roman Catholic Church, care of architect. Brick, stone, steel, 1 story and basement, 58x120 feet, Spanish tile roof, hardwood floors, vapor heat, electric light, tile work, roof ventilators. Plans in progress.

Residence, Dunmore, Pa. Architect, Vincent Russoniello, Scranton Life Building,

Scranton, Pa. Owner, N. Coyer, Dunmore, Pa. Hollow tile, stucco, 2½ stories, 32x42 feet, Spanish tile roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Stores and Loft Building, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Ezra Stern, 85 South Pennsylvania avenue, Wilkes-Barre, Pa. Hollo wtile, brick, steel, 2 stories, 40x90 feet, slag roof, hardwood floors, steam heat, electric light, plate glass. Plans in progress.

High School, Wyoming, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Wyoming School Board, W. Reynolds, secretary, Wyoming, Pa. Brick, 2 stories, 70x60 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved), tile work. Plans in progress.

Bungalow, Pottstown, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Samuel A. Shubert, Pottstown, Pa. Brick, stucco, 1½ stories, 27x32 feet, asbestos roof, yellow pine and oak floors (heating, plumbing and lighting reserved), bond. Plans in progress.

Double Residence, Douglasville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, J. Harry Schurr, Douglassville, Pa. Stone, stucco, 2 stories, 30x40 feet, stone foundations, slate roof, yellow pine floors, water pressure system, bond (steam heating, electric lighting and plumbing reserved). Plans in progress. Will be ready for bids in one month.

Residence, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, H. J. G. Kopsch, 304 Spring street, Royersford, Pa. Brick, stone, stucco, 1½ stories, 24x30 feet, asbestos roof, oak floors, hot water heat, electric light, tile work, plumbing, bond. Plans in progress. Will be ready for bids in one month.

Public Comfort Station, Market Square, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, City of Harrisburg, care of Mr. Lynch, Dauphin Building, Harrisburg, Pa. Concrete, 1 story, 55x60 feet, tile floors, electric lighting, plumbing. Owner taking bids due July 12th.

Residence, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Penrose Ruhl, Lititz, Pa. Brick, 2½ stories, 30x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids.

Residence, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, D. T. Lansing, 1641 Quincy avenue, Scranton, Pa. Stucco, 2 stories, 30x32 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids.

Residence, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, L. Dowd, 1632 Jefferson avenue, Dunmore, Pa. Stucco, 2 stories, 30x32 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids.

Residence, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, J. R. Bryden, Jr., 1660 Wyoming avenue, Scranton, Pa. Stucco, 2 stories, 30x32 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids.

Warehouse and Siding, South Tenth street, near Market, Harrisburg, Pa. Owners, The Raub Company, Marion and Christian streets, Lancaster, Pa. Brick, 4 stories, 153x193 feet, slag roof, steam heat, electric light, elevator, steel work. Owners will build.

Theatre, Apartment and Store, Shickshinny, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Charles Hooper, on premises. Concrete block, brick, 2 stories, 50x138 feet, slag roof, pine floors, steam heat, electric light, metal lath, roof ventilators, ornamental plaster. Owners will build.

Play Room and Tunnel, near Cresson, Cambria County, Pa. Architect, private plans. Owners, State Sanatorium for Tuberculosis, care of Edward Martin, State Health Commissioner, Harrisburg, Pa. Brick, steel, concrete and stone, 38x106 feet, concrete roof. Owners taking bids due July 10th at 1 P. M. Deposit, $25.00. Refund, $25.00.

School, West Lampeter, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, West Lampeter Township School Board, care of architect. Brick, 1 story and basement, 177x100 feet, composition roof and floors (heating, plumbing and electric work reserved), tile and marble work, skylights, roof ventilators, dampproofing. Architect taking bids due July 1st.

School, Foster Township, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Foster Township School Board, Mr. Kirshki, secretary, Foster, Pa. Frame, 1 story, slag roof, hardwood floors, electric light. Owners will be ready for bids next week, due July 14th.

Residence, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Charles Custer, Main street, Spring City, Pa. Brick and stone, 1½ stories, 22x35 feet, stone foundations, asbestos roof, oak and yellow pine floors, hot air heat, electric light, plumbing, plate and leaded glass, wood sash, bond. Owner will take bids due June 30th.

Bank, Valleyview, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Valley View National Bank, care of architect. Terra cotta, tile and stucco, 1 story, 32x65 feet, slate roof, concrete and marble floors, steam heating, electric lighting, metal lath, tile and marble work, bank fixtures. Architect taking bids due July 3rd.

Store and Office, Adams street, Scranton, Pa. Architects, Edward H. Davis and George M. D. Lewis, Union Bank Building, Scranton. Owner, Walter Rehrig, care of architects. Brick, stone, reinforced concrete, 5 stories, 100x41 feet, slag roof, concrete and hardwood floors, electric light, metal lath, elevators, tile and terrazzo work, copper work, roof ventilators. Architect taking bids due July 1st.

Theatre, Luzerne, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Marinos & Alexander, Luzerne, Pa. Hollow tile, brick, 2 stories, 50x177 feet, slag roof, pine floors, steam heat, electric light, metal lath, hollow tile, roof ventilators, ornamental plaster. Architect ready for bids due July 1st.

Residence, Cynwyd, Pa. Architects, Rehfuss & North, 10 South Eighteenth street, Philadelphia. Owner, R. G. Kennedy, 113 South Thirty-seventh street, Philadelphia. Stone and stucco, 2½ stories, 32x30 feet, slate roof, oak, pine and composition floors, electric lighting, bond. Architects taking bids due June 29th.

High School, Downingtown, Pa. Architect, John H. Mowrere, Phoenixville, Pa. Owners, Board of Education, Borough of Downingtown, Pa. Lowest bids submitted by: W. R. Beard & Son, Coatesville, Pa., $72 920; William Kaempser, Glenmore, Pa., $76,157.93. Heating, J. W. Maxwell, Downingtown, Pa., $12,050. Plumbing, J. W. Maxwell, Downingtown, Pa., $3,480. Electric, Strang Electric Co., 214 South Seventh street, Philadelphia, $1,398.

High School (alts. and add.), Conshohocken, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School District of Borough of Conshohocken, Pa. Brick, cut stone and steel, 2 stories, balcony and basement, 53x120 feet. Lowest bids submitted: W. R. Beard, Coatesville, Pa., $89,750; Ketcham & McQuade, 1029 Brown street, Philadelphiai, $95,994. Heating, Cressman & Crillman, Norristown, Pa.a, $19,500. Electric, Cressman & Crillman, Norristown, Pa., $2,615. Plumbing, William White, 2216 Ridge avenue, Philadelphia, $4,200.

Residence, Bryn Athyn, a. Architects, Walker & Carswell, Bryn Athyn, Pa. Owner, C. R. Smith, Bryn Athyn, Pa. Frame, 2½ stories, 23x33 feet, shingle roof, hardwood floors, hot air heat, electric lighting, plumbing. Architects taking bids due as soon as possible.

Residence (alts. and add.), Llandrillo road, Cynwyd, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, J. T. Hutchings, on premises. Hollow tile and stucco, 1 and 2 stories, 14x30 feet, tin and slag roof, oak and pine floors, electric light, tile and marble work. Architect taking bids due June 29th.

Pennsylvania Contracts Awarded

Store and Apartments, Sixty-ninth street and West Chester pike. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Harry MacKay Moore, care of architect. Brick and limestone, 3 stories, 20x70 feet, slag roof, macite, oak and pine floors, hot water heat, electric light, tile work, metal bulks, iron work. Contract awarded to Albert H. Moorshead, 67 Laurel street, Philadelphia, who is taking sub-bids.

Parsonage, Ardmore, Pa. Architect, A. N. Dobbin, 1701 Arch street, Philadelphia. Owners, Matthew Simpson Methodist Episcopal Church, care of W. H. G. Gould, chairman of Building Committee, 1218 Chestnut street, Philadelphia. Stone and hollow tile, 2½ stories, 43x43 feet, slate roof, oak and pine floors, hot water heat, electric lighting, tile work. Contract awarded to D. Ridgway Evans, Penfield, Pa.

Residence, Olyphant, Pa. Architect, Lewis Hancock, Mears Building, Scranton, Pa. Owner, Miss T. Lally, Olyphant, Pa. Stucco, frame, 2 stories, 30x42 feet, Spanish tile roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Peck Lumber Co., Olyphant, Pa.

High School (add.), Millersville, Pa., $49,435. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Manor Township School Board, F. F. Brenne, Highville, Pa. Brick, 2 stories, 80x95 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved). Contract awarded to Butz & Clader, Allentown, Pa.

Twin Residence, Highland Park, Pa. Architect, private plans. Owner, Mrs. Beatrice Greaves, Highland Park, Pa. Stone, hollow tile and stucco, 2½ stories, 27x30 feet, shingle roof, hardwood floors, hot water heat, electric light, plumbing. Contract awarded to Merion Const. Co., 2313 Walnut street.

Residence, Broad street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, James F. Zboyovsky, South Bethlehem, Pa. Hollow tile, brick, 2½ stories, 37x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to F. B. Glassmire, Bethlehem Trust Building, Bethlehem, Pa.

Administration Building (add.), 31 South Penn street, Allentown. Architects, Jacoby & Everett, Commonwealth Building, Allentown, David Jacks, chairman, Allentown. town, Davaid Jacks, chairman, Allentown. Brick, fireproof, 3 stories, 52x64 feet, slate roof, hardwood floors, electric light, tile work, elevators. Contract awarded to Butz & Clader, Allentown, Pa.

Residence, Ardmore avenue, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Dr. C. H. Arnold, Ardmore, Pa. Hollow brick and stucco, 2½ stories, 43x26 feet, shingle roof, hardwood floors, hot water heat, electric lighting. Contract awarded to D. Ridgeway Evans, Penfield, Pa.

Residence, Willow Grove, Pa., $5,685. Architect, private plans. Owner, Howard B. Baker, Jenkintown, Pa. Frame, shingle and stucco, 2 stories, 22x27 feet, slate roof, North Carolina pine floors, hot air heat, electric light. Contract awarded to Roy Randall, Horsham, Pa.

Residence, Marietta street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, C. H. Nolt, 824 Main street, Lancaster, Pa. Stone, 2½ stories, 42x36 feet, 20x21 feet, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Fred Brenner, Lancaster, Pa.

Residence, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, A. K. Mann, North Prince street, Lancaster, Pa. Brick, 2½ stories, 28x33 feet, 14x18 feet, hardwood floors, tile work. Contract awarded to Fred Brenner, Lancaster, Pa.

Residences (2), Norman Park, Narberth, Pa. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, C. H. Woolmington and C. S. Keebler, care of architects. Hollow tile, stucco and frame, 2½ stories, 24x36 feet, slate roof, hardwood floors, hot water heat, electric light. Contract awarded to Ernest Purring & Son, Narberth, Pa.

Residence, Altoona, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Mr. Hastings, Altoona, Pa. Contract awarded to J. D. Fluke Sons, Altoona, Pa.

Residence, Stenton avenue and Cresheim road, Valley Drive, Montgomery County, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, T. H. B. Smythe, 1953 Locust street, Philadelphia. Frame and stucco, 2½ stories, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy.

School Building, Telford, Pa., $21,000. Architect, Jerome S. Landes, Souderton, Pa. Owners, Board of Education, Telford, Pa. Contract awarded to Friel McLeister Co., Inc., 2146 East Norris street, Philadelphia.

New Jersey Construction News

Store (alts.), Atlantic and Ohio avenues, Atlantic City, N. J. Owner, Lewis Nickman, on premises. Architect, Lewis R. Barber, Guarantee Trust Building, Atlantic City. Brick and steel, steam heat, electric light, pine floors, hardware, plastering, metal bulks. Architect taking bids due June 30th.

Residence and Garage, Morris Heights, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, W. G. Howell, on premises. Brick, 2½ stories, 47x30 feet, 10x28 feet, garage, 18x24 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Residence, Greenwood avenue, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, Louis Kuehner, care of architect. Brick, 2½ stories, 35x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, New Hope, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Dr. L. T. Salmon, care of architect. Brick, 2½ stories 44x32 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, metal lath, tile and marble work. Owner will take bids.

Residence, Beechwood avenue, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Miss Gertrude Woolsey, care of architect. Frame, 1½ stories, 24x40 feet, shingle roof, hardwood floors, hot water heat, electric light. Architect taking bids due June 30th.

Residence, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Charles Schultz, care of architect. Brick, 2½ stories, 24x46 feet, slate roof, hardwood floors, steam heat el,ectric light, tile work. Architect taking bids due July 30th.

Residence, Pitman, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, W. S. Slack, Pitman, N. J. Frame, 2½ stories, 28x23 feet, shingle roof, oak and pine floors, warm air heat, electric light, iron work. Architect taking bids due July 1st.

High School, Bridgeton, N. J. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education, Bridgeton, N. J. Lowest bidders: J. S. Rogers Co., Drexel Building, Philadelphia, $157,500; Moore & Co., Nineteenth and Cherry streets, Philadelphia, $160,755. Electric, Baird Osterhout Co., 2109 Walnut street, $2,650. Heating and ventilating, J. H. Hutchinson, 1020 Callowhill street, $23,194. Plumbing and gas fitting, R. J. Hoban, 261 South Twenty-first street, Philadelphia, $9,173.

Armory, Salem, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owners, State of New Jersey, care of Commissioner Burdotte G. Lewis, Institutions and Agencies, State House, Trenton, N. J. Brick and steel, 2 stories, 92x24 feet and 52x28 feet, slag roof, concrete and pine floors, tile work, bond, floor hardener, terra cotta, ornamental iron work, waterproofing. Lowest bidder, Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia, $51,094.

School, Egg Harbor, N. J. Architect, F. F. Sanders, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, care of William Townsend, president, Egg Harbor, N. J. Brick, stone and steel. Preliminary plans in progress.

Road Work, Borough of Audubon, N. J. Engineer, J. J. Albertson, Court House, Camden, N. J. Owners, Borough of Audubon, H. K. Lawrence, Borough Clerk, Audubon, N. J. Excavation and concrete paving (approximately 35,000 square yards) and 1,500 lineal feet of 6-inch terra cotta tile drain. Owners taking bids at Commissioners' Chambers, Schoolhouse No. 2, Wyoming and Mansion avenues, Audubon, N. J., June 27th, at 8.30 P. M. Deposit, $5.00. Address bids to John W. Zanger, Director of Highways, 342 Merchant street, Audubon, N. J.

Sewerage System and Disposal Plant, Woodbury Heights, N. J. Engineers, Remington & Vosbury ,601 Market street, Camden, N. J. Owners, Borough of Woodbury Heights, H. J. Murgrauer, Borough Clerk, Borough Hall, Woodbury Heights, N. J. Approximately 4.21 miles of 5 to 12-inch terra cotta pipe sewers and house connections, 35 manholes, 5 flush tanks and a sewage disposal plant. Owners taking bids due June 29th at 8 P. M., Daylight Saving. Deposit, $10.00. Refund, $5.00.

New Jersey Contracts Awarded

Lodge Building, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Knights of Columbus, care of G. W. Goff, 221 North Warren street, Trenton, N. J. Brick, fireproof, 3 stories, 75x80 feet, 80x120 feet, slag roof, hardwood floors (heating, plumbing, electric work and elevators reserved), hollow tile, tile and marble work, safety treads, roof ventilators, skylights, fire doors, waterproofing, iron stairs, ornamental iron work. Contract awarded to Charles J. Smith, 202 Academy street, Trenton, N. J.

Warehouse, Titus avenue and Railroad, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Gross Brothers, Inc., 243 North Broad street, Trenton, N. J. Reinforced concrete, brick and steel, 3 stories, 115x42 feet, irregular size, slag roof, concrete floors, roof ventilators, dampproofing, terra cotta, iron work, floor hardener, rolled steel sash and doors. Contract awarded to Karno-Smith Const. Co., Broad Street Bank Building, Trenton, N. J.

Store (add.), 161 South Broad street ,Trenton, N. J. Architects, Klemann & Kaplan, First National Bank Building, Trenton. Owner, Bernard Tobish, on premises. Brick, 2 stories, 20x60 feet, slag roof, pine floors, hollow tile, steam heat, electric light, metal lath, rolled steel skylights, roof ventilators, metal ceilings. Contract awarded to Nathan Milgaten, 550 South Warren street, Trenton.

Garages (13), 612 West State street, Trenton, N. J. Architects, Klemann & Kaplan, First National Bank Building, Trenton. Owner, Bernard Tobish, 161 South Broad street, Trenton, N. J. Brick, concrete, 1 story, 125x20 feet, slag roof, concrete floors, steam heat, electric light, floor hardener. Contract awarded to Nathan Milgaten, 550 South Warren street, Trenton, N. J.

Store, Apartment (alts. and add.), 220 North Broad street, Trenton. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, George Hornketh, 631 Princeton street, Trenton, N. J. Brick, 3 stories, 75x16 feet, slag roof, tile and hardwood floors, hot water heat, electric light, tile work, hollow tile, rolled steel skylights, waterproofing. Contract awarded to J. Purks, Trenton, N. J.

Residence and Store, North Clinton street, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, Bernard Cooper, 505 North Clinton street, Trenton, N. J. Brick, 2½ stories, 41x19 feet, slate roof, hardwood floors, hot water heat, electric light ,tile and marble work. Contract awarded to Nathan Milgaten, 550 South Warren street, Trenton, N. J.

School, National Park, N. J., $26,896. Architect, Charles H. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Borough of National Park, N. J. Brick, cut stone and steel, 2 stories, 59x39 feet, slag roof, pine floors, safety treads, metal lath, iron work. Contract awarded to Wills Bill Co., 1706 Sansom street, Philadelphia.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 19, 1922. Sealed Proposals will be opened in this office at 3 P. M., July 19, 1922, for restoration of stone cornice and replacing of roof construction, etc., for the United States Post Office and Custom House, at Oswego, N. Y. Drawings and specifications may be obtained from the Custodian at Oswego, N. Y., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Miscellaneous Construction News

Community House (alts. and add.) and Gymnasium, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Madison Avenue Temple, Baltimore, Md. Brick, steel and stone, 4-story add., 21x65 feet, to building 63x65 feet, gymnasium 54x63 feet. Plans in progress. Too early for details.

Stores and Apartment, Binghamton, N. Y. Architect, G. T. Price, Miller Building, Scranton, Pa. Owners, Corlass Brothers, Binghamton, N. Y. Frame, stucco, 2 stories, 48x72 feet ,slag roof, pine floors, steam heat, electric light, plate glass, skylights, roof ventilators, metal ceilings. Architect will take revised bids July 5th.

(Continued from page 408)

$10 will be awarded for photographs of copper and brass objects of utility or ornamentation which to qualify must have have been in use more than 35 years. Included are copper roofs, brass door knockers, old copper cooking utensils, brass plumbing pipe. Fourteen additional prizes of similar amounts are offered for the best photographs showing the results of using substitutes for copper and brass.

AVOIDING CONCRETE FAILURES

A Few Practical Points on Obtaining a Successful Sidewalk Job

BY DALE VAN HORN

Today, with good cement on the market and its use past the experimental stage, what is to account for the large number of concrete sidewalk jobs which fail? Almost invariably, it can be traced to one or more of three or four things. If done in freezing weather there may have been lack of necessary precaution to guard against the damaging Jack Frost. Again, it might have been due to dirty aggregates, imperfect bonding, improperly constructed bases and foundations, or again the joints may have been hastily cut and failed to extend through all of the concrete. In other words, any one omission of several necessary steps in the construction of sidewalks will result in total or partial failure and eventual repair work. Good materials, proper methods carried out and careful workmanship are necessary qualifications for the construction of sound and lasting walks.

Aggregates selected should be inspected closely and only those presenting a hard and flinty surface should be used. The reason why pit sand and gravel fail to make good is because many of the particles have a fine coating of clay or dirt on their surfaces. This keeps the cement mortar from bonding with their surfaces and thus leave voids, later to become filled with water, and, when freezing weather approaches, the two split apart. Materials which show foreign matter clinging to them should be avoided, or thoroughly washed.

In the Middle West a common practice is to use sand and gravel entirely. These materials are all right for the top coat, but cement can be saved and a stronger bed obtained, if hard crushed rock is used in this step. Gravel or even sand does well for the top. It is to be understood that gravel is not to be omitted from the base, but that stone is to be used with it.

The foundation should be so constructed that it will not settle, but remain firmly rigid and at the same time offer a natural drainage for any water which might collect under it. In some localities, it is even necessary to provide artificial drainage where the soil is heavy and low. In this case, tile drainage lines are run at the outside of the walk to some natural outlet. Fills which have been improperly constructed and poor subbases are the cause of a lot of inferior walks.

One of the common results of a poor foundation is a crack which runs, often through the center of the walk for a considerable distance. This fact alone may not make it necessary to rebuild the walk. But weather changes, the action of freezing usually expand minute cracks to a width of an inch or more and the wider they become, the more chance the elements have to work. In time earth lodges there and soon a narrow ribbon of grass or weeds divide the walk. But worse of all, it will be only a matter of time until the whole will be in such a state that replacement becomes necessary.

In laying the walk the wood spreaders should be replaced every seventy-five feet or so with a thin metal strip of the same size or even a wood lath of one-half inch thickness. When the walk has been finished, this strip is removed and the space filled with asphalt or tar, thus forming a natural expansion joint. Unless this precaution is taken there is imminent danger of heaving where two cakes are forced upward, due to the end pressure.

A wood float or wood trowel is the best tool with which to finish the top. The steel trowel is popular, but nevertheless, it leaves a surface easily made slippery and very often fine hairline cracks occur, not unlike incipient cracks. These fine cracks occur because the steel trowel leaves a film of pure cement which contracts upon hardening and drying.

If the top is to be laid after the base has hardened considerable care should be exercised in applying it. Water under pressure from a hose should be played on the surface until all free and foreign matter has been washed away. Then a creamy mixture of cement and water is applied and worked in. To this may then be applied the top.

Trees which are to be surrounded with concrete should be given at least six inches on all sides. The space within can be filled with sand.—*Building Age.*

THE ARCHITECT

BY A. C. WOLF

To write fully about the architect is an endless task and I shall therefore touch only the more essential things required of him. His requirements as an architect are something more than the mere planning of the problem. To understand the architect and his problems, we must define what he is.

There can be no better definition than the following: "The artist who composes buildings, determines their proportions distributions and decorations, directs their execution, and controls the expenditure upon them."

With this definition before us, we see that the first and foremost of the requirements is that the architect must be an artist. The term artist does not necessarily imply a painter, but one who is delighted in his work for its own sake, yet never satisfied with it because of the desire to reach a higher state of perfection. A man of untiring endeavor to attain his dreams, insomuch that he gives willingly all the time and pains necessary to achieve the smallest improvement in his work. One who will not permit the words "it will do" and "good enough" in any part of his organization.

With the qualification of an artist he has only the foundation required and necessary for becoming an architect. With art we must combine technical skill, as his creative gift will be of little use if he has not the constructive ability that will enable him to carry his vision to maturity. The range of obstacles that now appears between the eager artist and the promised land of his dreams quite often indeed causes him to become discouraged, and either he turns to something else which he believes to be easier—or, he becomes determined to overcome the obstacles as they present themselves.

He must train himself so that he can create things, not as they exist, but as he would have them be. Mathematician he must be so that he may calculate. He must also master all the different trades. This requires him to become mason and bricklayer, painter and carpenter. The workers of all trades must give to him knowledge of their crafts. He must not rest till he has studied all the mysteries of materials.

Somewhat of an engineer he must be, in these days of tall buildings with steel for the frame, as he is required to know its great possibilities, and limitations. Sanitation comes within his scope, as he must arrange all sanitary equipment, no

detail shall he neglect as to pipe, trap, joint of fitting, his knowledge must be such that he can supervise properly. He must be able to advise on all matters pertaining to public health; and plan so as to guard against sickness and disease.

To all of the above, which are some of the most important requirements, we have yet to add another. All the knowledge which he has attained may be to his disadvantage and undoing, if it is not supported by the solid sense and reasoning commonly called "business ability."

This phase of an architect's being is entirely different than the others, as it differentiates him from the art crafts. His position when entrusted with an important commission is entirely different from those of the painter or sculptor. They produce their work at an agreed price which closes the transaction! A very simple matter as far as finance is concerned.

But the architect, from the moment he is awarded the commission, and building contracts are signed, has vast sums of money at his disposition, disbursed by his direction. No one can tell until the work is completed and an accounting made whether he has wisely and honestly acquitted himself and obtained full value for the moneys expended.

To prolong this article would weary the reader. I could write more of the necessary knowledge of accounts; familiarity with the law, as regards the drawing of contracts, the complexities of building codes, etc., of the need to be able to express ones views clearly, whether in writing or in speech.

After reading this you will say that these requirements of the "architect" are but a dream, that so many accomplishments cannot be crowded into a few years of life. This may be true of none of them, as they are, but it may stand for all of them as they would be.

Building Industry.

THE SHINGLE ROOF

BY A. ASHMUN KELLY

Is the good old shingle roof doomed? Are the imitation shingles taking the place of the real wooden shingles? To a large extent this is just what is happening. Gradually the various widely advertised asphalt and metal shingles are superseding the cedar and redwood shingles. It is a large subject, and cannot be covered in a restricted magazine article. But it may be that a few words on the subject will interest those who have to do with roofs and roofing materials.

Wooden roofs have the disadvantage of not being fireproof. But they can easily and cheaply be made so. Any coating or stain that will prevent combustion from a cinder or small spark long enough to prevent a flame will do. Even so simple a thing as lime water will do. But the best way is to dip in a good stain, for this will not only render the wood fireproof, but it will also prevent rot, and extend the life of the roof many years.

Creosote stain is the ideal one for shingles. And the shingles should be dipped two-thirds their length. This insures a perfect coating for all parts that will be exposed. Then a brush coat of the stain after the shingles are laid will be a great help, though it is not essential to effective work.

Creosote stain makes it rather costly shingling. But it will pay the client who has it done. One gallon will give two coats of stain to 100 square feet of shingles. When dipped two-thirds their length, 2½ to 3 gallons of stain will coat one thousand 4x16 inch shingles.

Shingles should be perfectly dry before staining, but I have had perfectly good results where I have dip-stained shingles that were not dry, and where I had to throw them into a pile with some rain falling; and placed on the roof before the stain was dry. But this is not advised if it can be avoided. The idea is, that when the shingle is dry it will take up more stain. As the stain is oily the water does not have any effect, unless under the stain. That is why the wood should be dry.

A high grade creosote stain may be cheapened by adding three gallons of water-white 150 deg. test oil, and one gallon of Japan drier to each three gallons of creosote liquid. Crude oil, and the other petroleum or mineral oils do not unite readily with creosote oil, although such liquids are used for the purpose of doping creosote stain. Such doping is not advised as it ruins the creosote as a stain, but painters do sometimes resort to the practise instead of getting a better price for their work. And when it is necessary to thin out creosote stain it is better to use raw linseed oil for shingles, and turpentine for inside staining. Such thinning is not often needed as the stain is right when bought, though by not keepng it well stirred while dipping the heavier part will settle and then will require thinning to reduce it.

Creosote burns the flesh, that you of course know; better rub the hands and wrists and maybe the face with linseed oil before beginning. If the stain does get on hands or face, don't try to rub it off, but apply linseed oil. after which you can rub the part off. Rubbing it while the fresh creosote is on the flesh will only spread it the more. Do not wash it off, for that will simply separate the tar acids and burn you the worse; creosote contains about 10 per cent. of this acid.

Creosote stain will get rather thick in cold weather, which is owing to the small quantity of naphthaline that it contains. When in this condition heat it a little or put it in a warm place for a time.

Ordinary oil paint is not thought to be good for shingle roofs, but by using a very thin oil paint stain, and dipping the shingle very satisfactory results may be obtained. Or the shingles may be done after laying, same as with creosote. The paint stain should be made from the best pigments. They should be finely ground in raw linseed oil, at the mill of course, and creosote may be stained too with such colors; in fact that is the way the colored creosote stains are produced. Only that the creosote will of course alter the tone of the pigment stain. Yet they will give very nice shades of color.

Raw and burnt sienna and raw and burnt umber are two fine pigments for stains, especially for the creosote stains. But the only green pigment that can be used is the chemically pure, not the green that is made by mixing yellow and blue together. This applies also to the reds, except the oxide reds. They should be chemically pure colors, without any aniline in them. This for permanency, as aniline colors will soon fade in the sun.—*Building Age.*

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The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

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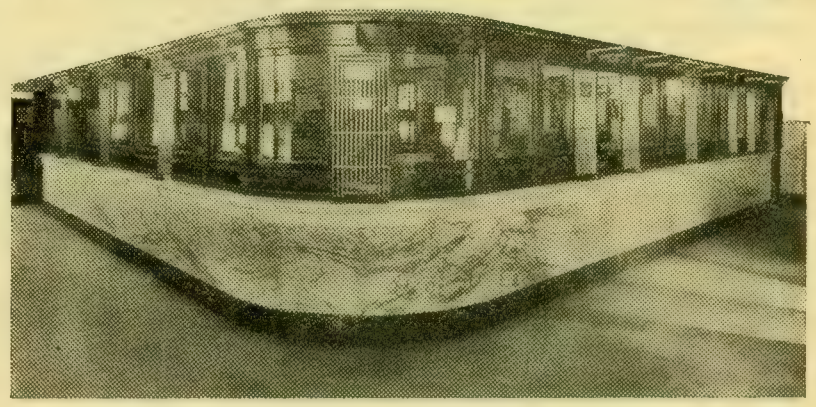
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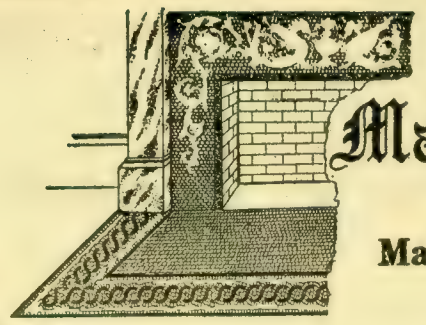


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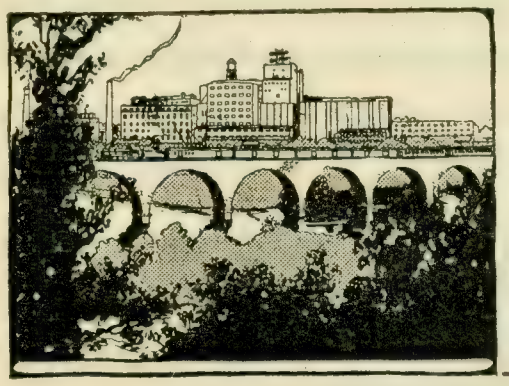
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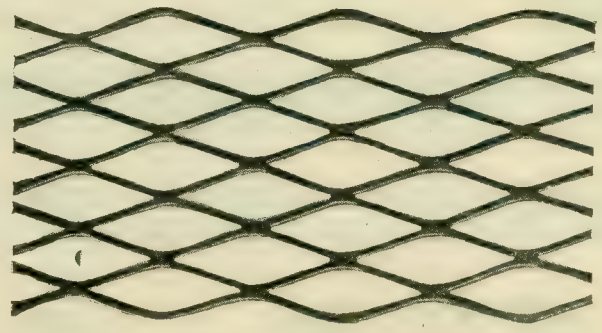
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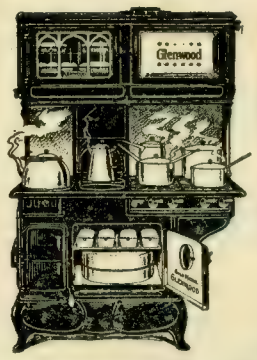
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As The Editor Sees It

In opening the organization meeting of the American Construction Council at the Washington Hotel, Washington, D. C., Secretary of Commerce, Hoover, stated that "If we would stem the tide tending to refer every little need and complaint to government, action to meet these demands must arise from within industry itself." He declared that in thus bringing all representatives of the construction industry together to see if such a council can be organized the most important step in the history of industry was being taken.

Among the subjects suggested by Secretary Hoover for the consideration of the Council were standardization of grades, inspection of, and simplification of dimensions of construction materials, the collection of statistics, the encouragement of home building, zoning, proper building codes, seasonal and intermittent employment, jurisdictional disputes, apprenticeship, vocational training and in general the elimination of unnecessary speculation and the better functioning of industry in regard to our national needs.

A warning against "an intense stratification of the various economic interests in our national life" which lead to selfish aims and purposes was voiced by Willis H. Booth, Vice President of the Guaranty Trust Company, of New York, in following Secretary Hoover. If the public confidence is to be gained the aims and purposes of the Council must square and comport itself entirely with the best public judgment, he said. He denied proposing an impractical altruism which was not consistent with actual facts but declared such a basis was "an enlightened kind of selfishness which will take us further because it is more nearly right." Illustrating his point he went on to say "If we can surround the construction industry with a feeling of stability we immediately add to its ability to secure credit." This feeling of stability, he stated was based on the confidence which the public gave to the industry.

Following the opening addresses, five minute responses were made by Henry H. Kendall, Architect, Boston, Mass.; Thomas H. MacDonald, Bureau of Public Roads, Washington, D. C.; Calvert Townley, Westinghouse Electric and Manufacturing Co., New York; Frederick L. Crandford, Brooklyn, N. Y.; John R. Alpine, Grinnell Company, Providence, R. I.; John Donlin, Building Trades' Department, A. F. of L., Washington, D. C.; M. T. Bannigan, McQuade and Bannigan, Utica, N. Y.; William McClellan, McClellan & Junkersfeld, New York City; Ralph F. Proctor, Maryland Casualty Co., Baltimore, Md.

The afternoon and evening sessions were devoted to the presentation of the report of the Operating Committee on Organization by General R. C. Marshall, Jr., General Manager of the Associated General Contractors of America, a discussion of the proposed by-laws by the ten major groups representing all elements in the industry, into which the Council has been divided, and the election of the Executive Board.

Two hundred representatives of every element of the industry were in attendance at the meeting, including architects, engineers, general contractors, sub-contractors, labor, manufacturers, dealers, bankers, insurance and bond interests, public utility corporations, state, federal county and municipal construction departments.

At the organization meeting of the American Construction Council, M. T. Bannigan, President of the National Building Supply Dealers Association said: "We went to war to prove that might did not necessarily make right. We are organizing this Council to establish the principle that the good of any element of the construction industry depends upon the good of every component part of the Industry."

Henry H. Kendall, Past-President of the American Institute of Architects stated that the Architects were happy to be among those who are participating in the organization of the Council.

"We see in it potentialities far beyond its present capacity," he said, "and we hope soon to see them realized in actual achievements. We shall gladly give to it our best efforts and co-operation to achieve these so much desired results.

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"We are to bring together a group of men, vitally interested in different phases of the building industry, an occupation, in which, directly or indirectly, almost every trade and industry is represented, and by our Counsel and advise solve the many problems which have arisen and will continue to arise between groups and trades; to fix standards and formulate rules of conduct which shall govern our business relations and promote good will, efficiency and fair play in building and construction."

William McClellan, of New York, representing public utilities construction, said: "The extreme difficulties encountered in construction as compared with other industrial problems, makes an organization, such as this, an inevitable factor. When a manufacturer gets an order he puts it through a factory with an organized force and system well established. Construction on the other hand necessitates in the very nature of things that those engaging in it have even to clear the ground, create their plant and organize their forces before they can begin to build. And on the next contract, they must do it all over again. The ability to overcome such problems as these is the kind of ability which must be put into handling the problems before such a council as this. The great need is to translate the general ideals here expressed into specific accomplishments. If construction men can't do it, nobody else can. I wish you God speed and every measure of success."

Ralph F. Proctor, of the Maryland Casualty Company of Baltimore, representing insurance and bonding companies said: "Although the Bible says 'He that is surety for a stranger shall smart for it, and he that hateth suretyship is sure,' we would welcome a beter understanding by our clients of our business and its problems. It is with enthusiasm therefore, that we join in the work of the American Construction Council, and you may be assured of our hearty co-operation in co-ordinating and building the Construction Industry."

The importance of co-ordination was emphasized by Frederick L. Cranford, of New York, Vice President of the Associated General Contractors of America, who said: "For forty years American business has been passing through a transformation from individualistic to collective and co-operative activity, but the co-operation so far developed in construction has been the effort of the members of a unit of the industry, and they have counted the successful though often antagonistic to the interests of the industry, so that while individually we were important, our co-operative efforts have proved ineffective.

"Our experience of the last few years indicate clearly the road which is the co-operation of all the elements of construction, because collectively our interests are and must be unselfish.

"There can be no more difficult industry to co-ordinate and none with a larger number of its members pure individualists, often to the extreme of piracy, but the co-ordination of no other industry is so important to the well being and prosperity of our people, for we are the agents through whom the nations' natural, material, economic and artistic resources are built and developed.

"All of our permanent revenue producing activities are either the product of construction, or through construction we develop their values. The railroads and irrigation in our arid districts serve as an illustration of this."

A very significant stand was taken by labor engaged in building trades when the organized building trades endorsed the American Construction Council and voted unanimously to affiliate with the Council at their recent convention in Cincinnati.

"We believe that the Council can be a most potential factor in the stabilization of the industry we serve," said John Donlin, head of the Building Trades Department, American Federation of Labor, "and we hope that all the elements of the industry will affiliate."

He stated that the Council should be a fact finding agency to determine rights and wrongs, and serve to eliminate wrongs inflicted by a few in each element of the industry. It was his opinion that the Council should establish and maintain local conference committees in all cities, these being necessary for local guidance to hold confidence of the public, to avoid strikes, lockouts and to protect the industry against uneconomic abuses.

"Some one of the many elements contributing to the industry," said Mr. Donlin, "is at one time or another responsible for some injury. If one member is working with detriment to his group, he should be called to task. Responsibility for any bad condition can be determined and a remedy applied. If the banker, the manufacturer, dealer, or workers is responsible, all others are concerned. We must all be guided by a determination for absolute justice."

John R. Alpine, of the Grinnell Company, manufacturers at Providence, R. I., said:

"This is the first time that a meeting of this character was ever held. You have all the important threads that make up the important fabric of the construction industry."

He stated that present efforts will bring a new balancing to industry as a whole, and a greater contentment to both employers and workers.

James A. Emery, Counsel for the National Manufacturers' Association, who followed Mr. Hoover in presiding at the meeting said that this was an opportunity to set up in an unusual way, self-government in the construction industry, a self-government which can speak for itself and act with intelligent vision, and accept for one of its important duties, the cleaning up of the industry from the inside when it is in need of this. "It has," he said, "its own function, its own authority, and as I see it can make itself a self-reformative body without any regulatory power of the government. It can be self-governed or it will be governed by the people by their elected officials."

Thomas R. MacDonald, chief of the Bureau of Public Roads, emphasized the relationship of the highway industry with the whole construction industry.

"The Bureau of Public Roads and officials of the State Highway Departments must study first, last and all the time, the interests of the public.

"The entirely highway program of the United States is under the administrative control of public officers. Therefore these men are not at liberty allways to act as they would if they were occupying a private position, but actuated and governed by the laws which have been established by the public to guide and control their actions.

"The passage of the Federal Aid Highway acts stimulated roadbuilding in the United States so that it has grown into what we may call a major industry. But the very big nature, the very fundamental of the Federal Aid Highway Acts has been the co-operation expected through them between the Federal Government and the States. Since 1916 the States

(Continued on Page 435)



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Church (alts. and add.), Twenty-eighth and Cambria streets, Philadelphia. Architect, J. H. Frank, Real Estate Trust Building, Philadelphia. Owners, Mediator Lutheran Church, on premises. Port Deposit stone and steel, 1 story and basement, 46x45 feet, slate roof, maple floors (heating, plumbing and electric-work separate bids). Architect taking revised bids due July 12th at noon.

Residence (alts.), 27 City Line avenue, Bala, Pa. Architect, Willis A. Hall, Upper Darby, Pa. Owner, name withheld. General interior and exterior alterations. Plans in progress.

Parish House, Forty-eighth and Baltimore avenue, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Calvary Methodist Episcopal Church, on premises. Brick, limestone trim, 3 stories and basement, 44x72 feet. Architects taking bids due July 10th.

Residence, St. Martin's, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, Dr. George Woodward, North American Building, Philadelphia. Stone, 2½ stories. Architect taking bids due July 10th.

Factory, Richmond and Tioga streets, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Gilbert Spruance ,312 North Third street, Philadelphia. Brick and cut stone, 2 stories, 138x62 feet, slag roof, composition, maple and cement floors, electric light, metal lath, rolled steel sash, hollow metal skylights, rolled steel doors, iron work (heating and elevators reserved). Architect taking bids due July 7th.

Bank and Office Building, Southeast Corner Fourth and Market streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Mutual Trust Co., Bourse, Philadelphia. Brick, stone, steel, concrete and terra cotta, 12 stories. Preliminary plans in progress.

Office Building, Southeast Corner Thirteenth and Locust streets, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Philadelphia Real Estate Board, care of John G. Williams, 39 South Seventeenth street, Philadelphia. Brick, stone and steel, 3 stories, 36x103 feet. Plans in progress. Too early for details. Will be ready for bids in 3 weeks.

Store (alts. and add.), 1206-08 Point Breeze avenue, Philadelphia. Architect, R. W. Pollock, 1802 Chestnut street, Philadelphia. Owner, J. Weiss, on premises. Brick, 2 stories, 9x12 feet, slag roof, pine floors, tile work, carpentry, mill work, plastering, plate glass, metal bulks. Architect will be ready for revised bids in one week.

Fraternity House (alts. and add.), 3530 Locust street, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Beta Theta Phi Fraternity, care of George P. Hayman, secretary, 153 East State street, Doylestown, Pa. General alterations and additions. Plans in progress.

Residence and Garage, Wissahickon avenue and Westview street. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, A. M. Burd, 1719 North Franklin street, Philadelphia. Stone and plaster, 2½ stories, 32x72 feet. Plans in progress. Architects will take bids in one week.

Stores and Apartments (2) (alts. and add.), 5223-25 Baltimore avenue, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Joseph M. Baker, 720 South Fifty-second street, Philadelphia. General alterations. Plans in progress.

Y. W. C. A. Building (Dormitory and Restaurant), Twenty-first and Cherry streets, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owners, Y. W. C. A., Eighteenth and Arch streets, Philadelphia. Brick, steel, stone and concrete. Preliminary plans in progress. Too early for details.

Stores (4) and Dwellings, Fox Chase, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick, terra cotta and marble, 3 stories, 18x87 feet, slag and tin roof, hardwood floors, metal ceilings, terra cotta, metal bulks, store fixtures, tile, marble and terrazzo, metal lath, electric light, hot water heat. Plans in progress.

Residence (alts. and add.), Linden avenue and Carlisle street. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 22x22 feet, enclosing porches, painting, glazing, heating and lighting extensions. Architect ready for bids.

Apartment House, Sherwood road and Lancaster avenue, Overbrook, Philadelphia. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, name withheld. Brick, stone and steel, 4 stories (16 apartments), slag roof, hardwood floors, elevators, tile and marble work, steam heating, electric lighting. Plans in progress.

Residence, Overbrook, Philadelphia, $50,000. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, Mrs. S. H. Bodine, Berwyn, Pa. Brick and hollow tile, 2½ stories. Plans in progress. Too early for details.

Bank Building, Southwest Corner Broad and Erie avenue, Philadelphia. Architect, Alex. Adams, 1012 Walnut street, Philadelphia. Owners, Northern Central Trust Co. of Philadelphia, premises. Stone, 2 stories. Preliminary plans in progress.

College Buildings, Forty-third, Woodland and Kingsessing avenue, Philadelphia, approximately $2,000,000. Architect, not yet selected. Owners, Philadelphia College of Pharmacy, 145 North Tenth street, Philadelphia. Work contemplated.

Residence, Lancaster pike, Overbrook, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, John McGlinn, 145 South Second street, Philadelphia. Stone, 2½ stories, 30x85 feet, slate roof. Plans in progress. Architect will take bids in one week.

Residence (alts.), Penn street, Queen Lane Manor, Philadelphia. Architect, J. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Henry G. Reifsnyder, Manheim Apartments, Philadelphia. General interior and exterior alterations. Plans in progress. Will take bids in ten days.

Residence (alts. and add.) and Garage, 4805-07 Springfield avenue, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, Nicola Perrella, on premises. Brick, 3-story add., 25x14 feet, slate roof, hardwood floors, copper work, plumbing, tile work, garage, 1 story, brick, 32x22 feet, slag roof, cement floor. Architects are taking sub-bids.

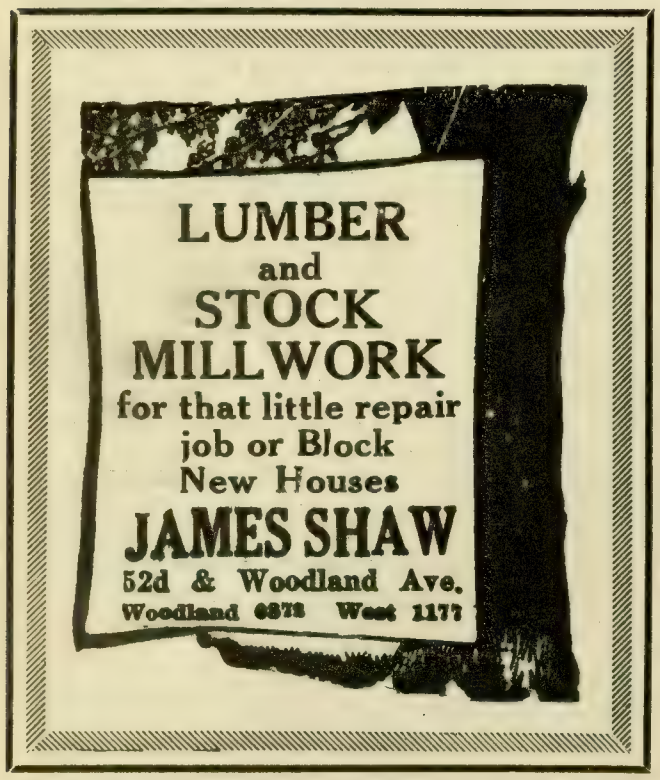
Apartments (alts.), 403 South Forty-second street, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, Thomas Harwood, care of

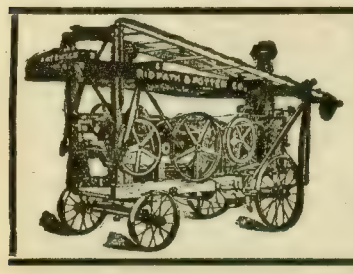
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architects. General alterations, hardwood floors, electric lighting, changing partitions, plastering, painting, carpentry, mill work, glazing. Architects taking sub-bids.

Residences (10), Fifty-eighth and Warrington avenue, Philadelphia. Architect, E. Allen Wilson ,1208 Chestnut street, Philadelphia. Owner, W. E. Yonker, 722 South Fifty-first street, Philadelphia. Brick, 2 stories, 15x45 feet, slate and slag roof, tile roof, hardwood floors, hot water heat, electric light, tile and marble work, garages in basements, cement work. Owner is taking sub-bids.

Factory, Southwest Corner Tenth and Bainbridge streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers, Third and Spruce streets, Philadelphia. Brick, slow burning, 4 stories, 84x109 feet, slag roof, pine, composition and concrete floors, (1) elevator, rolling steel doors, rolled steel sash, electric light, steam heat, reinforced concrete work. Architect taking bids due July. 13th at noon.

Apartment Building (alts. and add.), 3414 Spring Garden street. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Albert Brown, 310 Lincoln Building, Philadelphia. Brick, 3 stories, 21x70 feet, slate roof, electric lighting, plumbing, tile and marble, cement work, refinishing floors (heating reserved), iron stairs. Architect taking bids due July 7th.

Store and (8) Apartments, 623 North Sixteenth street, Philadelphia. Architect, private plans. Owner, Charles Weiss, 1707 Columbia avenue, Philadelphia. Brick and steel, 3 stories and basement, 18x46 feet, slag roof, pine floors, hot water heat, electric light, plumbing, cement work, masonry, excavation, underpinning, plastering, carpentry, painting, glazing. Owner taking bids.

Store and (2) Apartments (alts. and add.), 804 South Fourth street. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, W. Colton, on premises. Brick and steel, 3 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, plumbing, masonry, tile work, carpentry, plastering, sheet metal work, painting, glazing. Architect taking bids.

Twin Residence, Lincoln Drive near McCallum street. Architect, private plans. Owner, Louis S. Deitz, 6636 McCallum street, Philadelphia. Stone, 2½ stories, 30x50 feet, slate roof, oak and pine floors, steam heat, electric light, tile work. Owner taking bids due July 7th.

Restaurant, Sixty-first and Baltimore avenue, Philadelphia. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, George Costas, on premises. Brick, 1 story, 17x50 feet, slag roof, maple floors, metal ceilings, metal bulks, plate glass (heating, lighting and plumbing reserved). Architect is taking bids.

House, Church and American streets, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Christ Church Neighborhood House, on premises. Brick, terra cotta, cut stone and steel, additional story, slag and promenade tile roof, oak and maple floors, copper skylights, waterproofing, iron work. Architect taking bids due July 7th.

Bank (alts. and add.), Fifth and Tabor road, Philadelphia. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, Olney Bank & Trust Co., premises. Brick, cut stone and steel, 2 stories and mezzanine, irregular, slag roof, concrete and cork floors, dumb waiter, metal lath, tile, marble and terrazzo, rolled steel sash and skylights, bond, iron work. Architect taking bids due July 8th.

Moving Picture Theatre, Germantown avenue and Cayuga street. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Cayuga Theatre, on premises. Brick and steel, slag roof, cement floors, metal lath, marble work, bronze, iron work. Architects taking bids due July 7th.

Building (alt. and add.), 1921 Market street, Philadelphia. Architect, F. G. Caldwell, Stephen Girard Building, Philadelphia. Owner, name withheld. Brick, cut stone and steel, 1 story, 21x19 feet, tin roof, plastering, carpentry, mill work, hollow metal skylights, terra cotta. Bids due July 7th.

Residence, Frankford, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, Harry H. Cox, 1510 Harrison street, Frankford, Philadelphia. Brick, 2½ stories, 16x72 feet, slate roof ,hardwood and pine floors, hot water heating, electric lighting, tile work. Owner is taking bids.

Residence, Queen Lane, Germantown. Architect, J. Conarroe, 225 South Sydenham street, Philadelphia. Owner, Mrs. Ellen L. Fox, care of A. H. Fox, Seventh and Grange streets, Philadelphia. Hollow tile and stucco, 2½ stories, 30x39 feet, tile roof, oak and pine floors, hollow tile, hot water heat, electric light, metal lath, tile work. Owner taking bids due July 13th.

Auditorium and Sunday School (alt. and add.), Mascher and Colonna streets, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Norris Square Methodist Episcopal Church, on premises. Brick and steel, 2 stories, 64x92 feet, slag roof, pine floors, dampproofing, iron work, electric light, metal lath, tile work, rolled steel skylights. Architect taking bids due July 7th.

Church (add.), 2324 Germantown avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Fifth Moravian Church, on premises. Brick and stone, 1 story, 19x56 feet, slag roof, pine floors, steam heat, electric light, iron work. Architect taking revised bids due July 6th.

Rectory, Fifty-fourth and Diamond streets, Wynnefield, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Barbara's Roman Catholic Church, care of Rev. Joseph L. N. Wolfe, Wynnefield, Philadelphia. Stone, 2½ stories, 42x72 feet, slate roof, tile and marble. Architect taking bids due July 24th.

Grading, Paving and Supplies, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Grading, asphalt paving, redressed granite block paving, asphalt repaving, country road work, grading and paving Delaware venue, from Allegheny avenue to Dyotte street, ready mixed concrete, paving gravel, Portland cement, crushed stone, bituminous material, asphalt paving mixtures and materials for repairing bridges. Owners taking bids due July 11th at noon.

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Pier 127, Allegheny avenue, North Wharves, Delaware River, Philadelphia. Architect, private plans. Owners, Bureau of Wharves, Docks and Ferries, Director William F. Sproule, Second Deck, Pier 4, Chestnut Street, South Wharves. Improving and enlarging, 16,000 feet B. M. timber, 1,000 feet pile logs, 10,000 lbs. bolts, nuts and washers, repaving. Owners taking bids due July 10th at noon. Deposit, $10.00.

Apartments, Thirteenth and Oak Lane avenue, Philadelphia. Architect, Conrad W. Neff, 1200 Locust street, Philadelphia. Owner, Mrs. Mary E. La Dow, Oak Lane. Brick, cut stone and steel, 3 stories, 121x40 feet, slag roof, oak and pine floors, dumb waiters, iron work (weather strip, heating and lighting reserved), tile and marble, plumbing, metal lath. Architect taking bids due July 12th.

Schaff Building (add.), Fifteenth and Race streets, Philadelphia. Architects, Marshall & Fox, Chicago, Ill. Owners, Publication & Sunday School Board, Reformed Church of America, care of Rev. Dr. Rufus Miller, on premises. Brick, cut stone and steel, 13 stories, 120x120 feet, slag roof, concrete floors, hollow tile, steam heat, electric light, metal lath, bond, floor hardener, iron stairs, iron work, dampproofing. Architect taking bids due July 12th.

Residence, Awbrey and East Washington Lane, Germantown, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Algernon Evans, care of architect. Stone, 2½ stories, 58x33 feet, shingle roof, oak and pine roof, hot water heat, electric light, tile work, metal lath, iron work. Architect taking bids due July 11th.

Residence, Awbrey and East Washington Lane, Germantown, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Mrs. Jonathan Evans, care of architect. Stone, 2½ stories, 45x34 feet, shingle roof, oak and pine floors, electric light, metal lath, tile work (heating reserved), iron work. Architect taking bids due July 11th.

Swimming Pool and Bath House, Torresdale and Wakeling street. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Works, Bureau of Recreation, 593 City Hall. Lowest bidders: T. J. & J. R. Whelan, Seventeenth and Summer streets, $38,170; Mitchell Brothers, 2135 Race street, $38,835.

Div. D Warehouse M-1 (alts.), Twenty-first and Oregon avenue. Owners, Quarter Master's Intermediate Department, Twenty-first and Oregon avenue. Lowest bidders: George H. Evans, Inc., 109 North Thirteenth street, $4,239; J. B. Kelly, 2313 Walnut street, $5,500.

Contract No. 661, Frankford Elevated, Philadelphia. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street, Philadelphia. Miscellaneous work. Lowest bidders: F. J. Boas, 201 North Broad street, Philadelphia, $534,180; Rapid Transit Const. Co., Eighth and Dauphin streets, $566,693.

Residences and Garages (26), Fifty-sixth and Litchfield streets and Fifty-sixth and Beaumont avenue, Philadelphia, $134,000. Architect, James C. S. Fernald, 5533 Wyalusing avenue, Philadelphia. Owners, Marshall, Maloney & Wallace, 8 South Fifty-second street, Philadelphia. Brick, 2 stories, 18x32 feet, 19½x32 feet and 16x29 feet, 13x10 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owners will build.

Bungalow, Northwest Corner St. Vincent and Gingham streets, $4,500. Architect, private plans. Owner, Louis C. Brill, 7240 Montour street, Philadelphia. Frame, 1 story, 30x41 feet, shingle roof, oak and pine floors, electric lighting. Owner will build.

Grading and Paving, Delaware avenue, between Columbia avenue and Dyotte street. Owners, City of Philadelphia, Department of Highways, City Hall. 23,500 square yards concrete block, 12,800 cubic yards grading. Owners will soon take bids.

Residences (8), Woodland aveneu, East of Fifty-fifth street, $41,000. Owners, D. Sokolow and I. Mitten, 3130 Clifford street, Philadelphia. Brick, 14 feet 11 inches x 28 feet, 10x23 feet, 16x52 feet and 16x41 feet, hot water heat, electric light. Owner will build.

Residences (32) (5) Seventh and Rockland streets, and (27) Seventh and Ruscomb streets, Philadelphia, $170,000. Owner, Matthew J. Best, 4829 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 15½x36 feet, slag roof, hot water heating. Owner will build.

Residences (34), North and South sides Independence avenue, Oak Lane, $5,000 each. Architect, private plans. Owner, Joseph B. Eisele, 7265 Limekiln Pike, Philadelphia. Brick, 2 stories, 15x36 feet, slag roof, hot water heating. Owner will build.

Offices, Northwest Corner Fourth and Chestnut streets, $4,000. Owners, Provident Life & Trust Co., on premises. Mezzanine floor between fourth and fifth floors, 31½x48½ feet, plastering, carpentry, mill work. Owners will build.

Stable, 1512-14 South Sixteenth street, Philadelphia, $7,500. Architects, Stuckert & Co., 1420 Chestnut street, Philadelphia. Owner, H. Dolfinger, Sixteenth and Tasker streets, Philadelphia. Brick, 2 stories, 32x61 feet, slag roof, electric work. Architects will build.

Residences (30) 5832-62 Chew street, and Haines street, 714-740, $131,400. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut Terrace, Philadelphia. Brick, 2 stories, 15x40 feet, 18x30 feet, slag roof, hot water heating, electric lighting. Owner will build.

Ice Storage Building, South side Paschall avenue, West of Fifty-fourth street, $4,000. Architects, William F. Koelle Co., Twenty-sixth and Oxford streets, Philadelphia. Owners, Crescent Ice Co., on premises. Brick, 1 story ,51 feet 9 inches x 66 feet, cement floors, slag roof. Architects will build.

Residences (6), Stores and Residences (2), 2719-33 West Allegheny avenue, Philadelphia, $52,000. Owner, Morris L. Miller, Allegheny avenue and Marston street. Brick, 2 stories, 16x27 feet, 10x18 feet, slag roof, hot water

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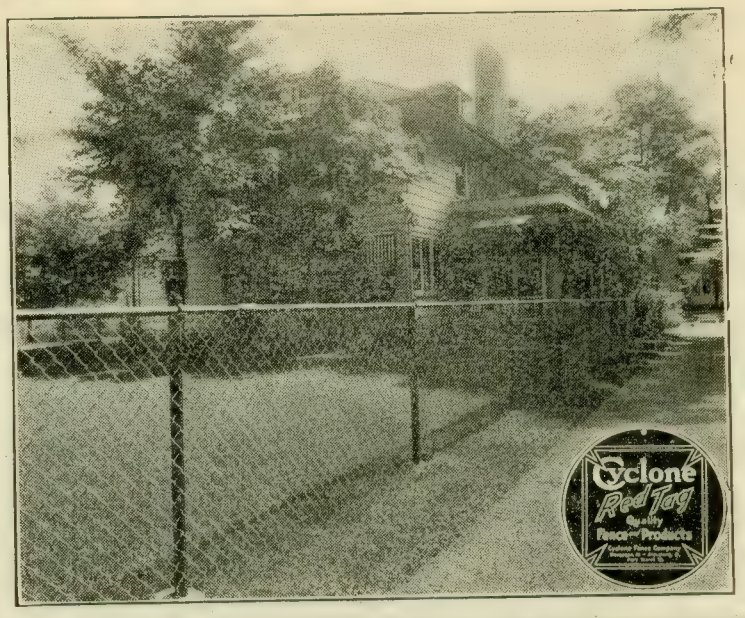
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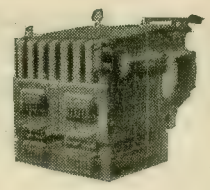
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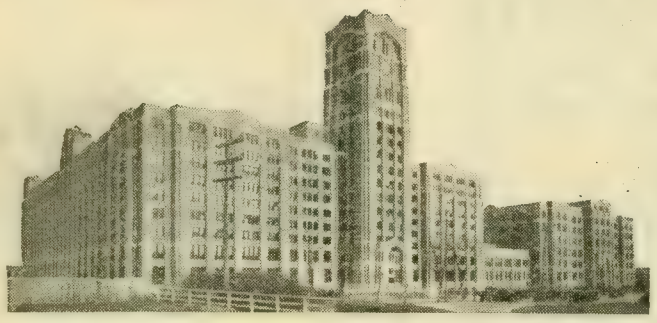
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heating, electric lighting. Owner will build.

Residences (4), C street, South of Rockland street, $22,500. Owner, Charles P. Mills, 140 E. Luray street, Philadelphia. Brick, 2 stories, 16 feet 9 inches x 38 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (18), Rover street, South of Tioga street, $48,700. Owner, M. J. Walsh, 4302 North Third street, Philadelphia. Brick, 2 stories, 15x28 feet, slag roof, hot water heating. Owner will build.

Building (add.), 1135-37 South Fifty-eighth street, Philadelphia, $20,000. Architect, Stuart Winslow, 6318 Opal street, Philadelphia. Owner, Francis H. Thole, on premises. Brick, 2 stories, 32x110 feet, 32x30 feet, slag roof, electric lighting, tile work. Owner will build.

Shop (add.), Southwest Corner Sixth and Tabor Road, Philadelphia, $100,000. Architect, private plans. Owners, Proctor & Schwartz, Inc., on premises. First-class reinforced concrete, 1 story, 125x240 feet, slag roof, steam heat, electric work, steel sash. Owners will build.

Residence and Store (add.), 2644 Germantown avenue, $2,000. Architect, private plans. Owner, Harry Young, on premises. Brick, 1 story, 16x42 feet, second story, 13x42 feet, slag roof, yellow pine floors. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store (alts.), 1513 Fairmount avenue, Philadelphia. Architect, Salvatore J. Critti, 817 North Sixteenth street, Philadelphia. Owner, Mrs. Mary Clymer, on premises. General alterations, electric lighting, tile and marble work, plate glass, structural steel, mill work, carpentry, excavation. Contract awarded to Philadelphia Const. Co., 1809 Vine street, Philadelphia.

Administration Building, Byberry, Philadelphia. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Philadelphia Hospital, Department of Public Health, care of Director C. L. Furbush, M. D., 584 City Hall. Lowest bidders: J. B. Kelly, 2313 Walnut street, $106,978; Lawrence R. Hurley, Bulletin Building, $109,675. Heating, Mech. Equipment Co., Drexel Building, $7,944. Electric, Walker Kepler Co., 531 Chestnut street, $744. Plumbing, William White, 2217 Ridge avenue, $6,500. Contract awarded to J. B. Kelly, 2313 Walnut street, Philadelphia.

Home for Attendants and Domestic Help, Thirty-fourth and Pine streets. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Philadelphia Hospital, Department of Public Health, care of Director C. L. Furbush, M. D., 584 City Hall, Philadelphia. Lowest bidders: J. B. Kelly, 2313 Walnut street, $172,976; George H. Evans, Inc., 109 North Thirteenth street, $183,538. Heating, McClintick Brothers, 5216 Webster street, $26,187. Electric, Baird Osterhout Co., 2109 Walnut street, $4,878. Plumbing, N. Connolly, 1404 North Eighteenth street, $9,133. Contract awarded to J. B. Kelly, 2313 Walnut street, Philadelphia.

Parsonage and Sunday School, 1538-42 East Montgomery avenue. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, Atonement Lutheran Church, on premises. Brick and steel, 2 stories, 55x57 feet, and 2 stories and mezzanine, 71x49 feet, slag and slate roof, pine, oak and composition floors, electric light, tile and marble, metal lath, tin covered doors (heating, plumbing, separate bids). Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Building (pork packing plant), 454-58 North American street, $90,000. Architect, T. A. Stoutenbourgh, 1509 Champlost street. Owner, Bernard S. Pincus, Northwest Corner Twenty-first and Market streets. Brick, cut stone and steel, 3 stories, 48x100 feet, composition roof, composition and concrete floors, hollow tile, waterproofing, iron work, cork insulation, rolled steel sash and skylights, electric lighting. Architect will build.

Foundry, 635 to 639 North Watts street, Philadelphia. Architect, H. P. Weldon, 10 South Eighteenth street, Philadelphia. Owners, Thomas Savill's Sons, 1310 Wallace street, Philadelphia. Brick, 2 stories, 42x60 feet, slag roof, monolithic finish, cement floors, rolled steel sash, terra cotta. Contract awarded to Seeds & Steinmetz, 1101 Divinity street.

Professional Offices, 1614 Spruce street, $22,000. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owner, Dr. W. W. Fritz, 1600 Summer street, Philadelphia. Brick and steel, 2 stories, 72x18 feet, slag roof, oak floors, dumb waiter, bond, hollow metal sash and skylights, steam heat, electric light, metal lath, tile work. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Lombard Central Building (alts. and add.), 254 South Fourth street. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway. Concrete, carpentry, mill work, plumbing, heating ,electric work, tile and marble, plastering, bond. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Operators' School (alts.), 406 Market street, Philadelphia. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway. Carpentry, mill work, heating, lighting, plumbing, hollow tile, plastering, bond. Contract awarded to E. H. Keefer & Son, 1321 Rodman street.

Ball Field and Tennis Court, Nineteenth and Oregon avenue, Philadelphia. Architect, James A. Roletter, 1211 Chestnut street, Philadelphia. Owners, Girard Estate, care of J. H. Merkil, Lafayette Building, Philadelphia. Field, 398x286 feet, court 193x190 feet, shelter, 1 story, 13x60 feet, brick, concrete and cement, slate roof, metal lath, carpentry, mill work, hardware, painting, iron work. Contract awarded to George Dobbin, 1020 South Forty-seventh street, Philadelphia.

Office Building (add.), 1707-09 Arch street, $100,000. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Philadelphia Conference Tract Society of Methodist Episcopal Church, on premises. Brick and concrete, 4 stories and basement, 40x105 feet, slag roof, concrete floors, steam heat, electric lighting, metal lath, tile, marble and terrazzo, iron work. Contract awarded to Cramp & Co., Denckla Building.

Store (alts. and add.), 1424 Walnut street, Philadelphia, $12,000. Architect, private plans. Owners, Fur & Millinery Shop, Inc., 1423 Walnut street, Philadelphia. Brick, 2 stories, 26x60 feet, slag roof, maple, composition and parquetry floors, steam heat, electric light, plumbing, mill work, hardware, rolled steel sash, hollow metal skylights, stair work, iron work. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Garage, 910 to 918 Spring street, Philadelphia. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, Jacob Pinheiro, 1007 Race street, Philadelphia. Brick, cut stone and steel, 2 stories, 94x100 feet, slag roof, cement floors, elevators, iron work, bond, steam heating, electric lighting, tile work. Contract awarded to Conneen Const. Co., 10 South Eighteenth street.

Residence, Magnolia, between Church and Germantown avenue, $30,000. Architect, A. H. Brockie, 254 South Fifteenth street, Phila-

delphia. Owner, John W. Whitall, care of architect. Brick, stucco, tile and marble work, canvas roof, electric work, hot water heating, carpentry, mill work, hardwood floors. Contract awarded to F. Elvidge & Son, 5522 Germantown avenue.

Residence, Chestnut Hill, Philadelphia. Architect, Robert Rhodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, W. Griffin Gribbel, 1513 Race street, Philadelphia. Stone, 2½ stories, 43x35 feet and 59x24 feet, shingle roof, oak, pine floors, hot water heat, electric light, tile and iron work. Contract awarded to Wolverton & Co., 222 East Willow Grove avenue.

Sales and Service Station, Southwest Corner Bellfield and Wyoming avenues, $9,600. Architect, private plans. Owner, M. A. Dooling, 1331 North Broad street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric lighting. Contract awarded to L. Fawley, 1432 South Penn Square, Philadelphia.

Garage and Laundry, Chestnut Hill, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Joshua A. Pearson, 433 West Price street, Germantown, Philadelphia. Contract awarded to R. C. Borthwick, 8018 Germantown avenue.

Garage, 1418 to 1428 Mellon street, Philadelphia, $20,000. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Louis J. Kolb, Tenth and Reed streets, Philadelphia. Brick, 1 story, 71x60 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, iron work. Contract awarded to William G. Uhlers' Sons, 1909 McKean street.

Storehouse for Inflammables, Spec. 4670, Navy Yard, Philadelphia. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Removing and re-erecting corrugated iron building, 1 story, 80x200 feet. Contract awarded to Charles Gilpin, Harrison Building.

Garage, 2519 East Dauphin street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Frank Fultka, on premises. Brick, reinforced concrete and steel, 1 story, 16x22 feet, slag roof, cement floors, electric lighting. Contract awarded to James J. Cowen, 2571 Coral street.

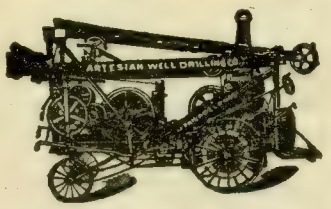
Garage, Manning street, between Broad and Fifteenth street, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Universal Service Motors Corp., 1407 Locust street. Brick and steel, 6 stories, 116x70 feet, slag roof, cement floors, hot water heat, electric light, metal lath, rolled steel sash, tin covered doors, bond, floor hardener, iron work. Contract awarded to P. M. Sax, Penfield Building, Philadelphia.

Kershaw Hall, School Lane and Greene street, Philadelphia, $5,000. Architect, R. L. Perot, 137 Harvey street, Philadelphia. Owners, Germantown Academy, on premises. Brick and steel, 2 stories, 11x45 feet, tin roof, hardwood floors, steam heat, electric work, rolled steel sash. Contract awarded to William G. Gruhler & Son, 219 High street.

Residence and Store, East side Point Breeze avenue, North of Titan, $12,000. Architect, private plans. Owner, H. Goldberg, 1352 Point Breeze avenue, Philadelphia. Brick, 2 stories, 28x30 feet, slag roof, oak and pine floors, bulk windows, plate glass, electric light. Contract awarded to C. Schnitzer, 2513 North Thirty-first street, Philadelphia.

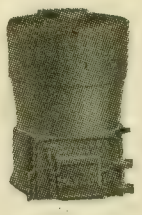
Residences (4), Nineteenth and Federal streets, $25,000. Architect, private plans. Owner, J. Marks, 530 Tasker street, Philadelphia. Brick, 2 stories, 16x29 feet, 11x20 feet and 20x72 feet, slag roof, electric lighting. Contract awarded to C. Schnitzer, 2513 North Thirty-first street, Philadelphia.

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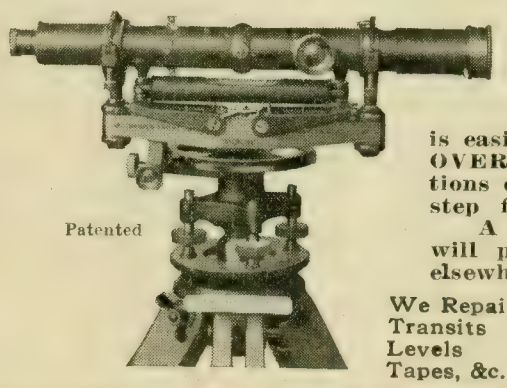
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Corner Stillman and Jefferson streets, $3,000. Architect, private plans. Owner, F. Fredman, on premises. Brick, 2 stories, 17½x8½ feet, slag roof, yellow pine floors, garage, 1 story, 20x18 feet, cement floors. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Pier 22 (alts.), South Wharves, Delaware River, Philadelphia. Engineer, L. P. Kimball, Baltimore, Md. Owners, Baltimore & Ohio Railroad, Baltimore, Md. Contract awarded to Frainie Brothers & Haigley, 18 Clay street, Baltimore, Md.

Machine Shop and Garage, Wissinoming, Philadelphia, $45,000. Architect, private plans. Owners, Hellwig Silk Dyeing Co., Ninth and Buttonwood streets. Brick and steel, 1 story, 40x240 feet and 40x100 feet, slag roof, cement floors, rolled steel sash, iron work. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Factory (alts.), 229 Vine street, Philadelphia, $5,000. Architect, private plans. Owners, George D. Ellis & Sons, Inc., 309 South Third street, Philadelphia. Brick, corrugated front, steel sash, structural steel. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Manufacturing Building (add.), Southeast Corner Wheatsheaf Lane and Coral street, Philadelphia, $60,000. Architect, private plans. Owners, Hulton Dyeing Co., Inc., 3819 Frankford avenue, Philadelphia. Brick, 2 stories, 62x203 feet, slag roof, electric work, steam heat. Contract awarded to F. Crompton & Brother, 4614 Oakland street.

Building (alts.), rear of 121 Chestnut street, $3,000. Architect, A. H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, George McFadden & Brothers, on premises. Steel skylights, sheet metal work, painting, glazing. Contract awarded to H. E. Baton, 1713 Sansom street.

Storage Building, 1528-48 North Fifth street, Philadelphia, $40,000. Architect, private plans. Owners, James H. Billington Co., 1539 Randolph street, Philadelphia. Brick, slow burning, 1 and 2 stories, 97x48 feet, slag roof, yellow pine floors, steel sash. Contract awarded to F. H. Hoover & Son, 1023 Cherry street, Philadelphia.

Residence, North side Washington Lane, East of Anderson, $7,500. Architect, private plans. Owner, M. Oberholtzer, care of builder. Brick, 2 stories, 24x44 feet, slag roof, hot water heat, electric light. Contract awarded to Fred C. Hoohn, 3725 North Fifth street, Philadelphia.

Church (alts.), Southeast Corner Twenty-third and Berks streets, Philadelphia, $15,000. Architect, private plans. Owners, St. Elizabeth's Church, on premises. Carpentry, mill work, plastering, painting, glazing. Contract awarded to M. Melody & Son, 1322 Race street, Philadelphia.

Residence and Garage, 8430 Ardleigh street, $14,500. Architect, private plans. Owner, Eugene Grummier, 21 West Gravers Lane, Philadelphia. Hollow tile and stucco, 3 stories, 20x33 feet, 20x11 feet, garage 36x24 feet, slate roof, hot water heat, electric lighting. Contract awarded to Lockhart & Simon, 1524 Chestnut street.

Store (alts.), 1122-24 Chestnut street, Philadelphia, $10,000. Architect, private plans. Owner, B. F. Dewees, on premises. Bulk windows, plate glass, painting, glazing, carpentry, mill work. Contract awarded to Basch & Co., Ruan and Tackawanna streets, Philadelphia.

Residence, North side Markle street, East of Mitchell street, $4,000. Architect, private plans. Owner, James Ellis, 414 Hermit Lane, Philadelphia. Brick, 2 stories, 19x45 feet, slag roof, electric lighting. Contract awarded to H. C. Missimer, 124 Kalos street, Philadelphia.

Residences (2), South side Seville street, East of Ridge avenue, $3,500. Architect, private plans. Owner, L. Missimer, 124 Kalos street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hot water heating. Contract awarded to H. C. Missimer ,124 Kalos street, Philadelphia.

Building (alts.), 1019 Poplar street, Philadelphia, $3,300. Architect, private plans. Owner, G. Silver, 913 North Warnock street, Philadelphia. Carpentry, mill work, painting, glazing. Contract awarded to B. Israel, 947 North Sixth street, Philadelphia.

Store and Storage Building, 204 North Second street, Philadelphia, $3,000. Architect, private plans. Owners, Estate of John Livesey, Allen Lane, Philadelphia. Brick, 1 story, 5x35 feet, slag roof, yellow pine floors. Contract awarded to C. F. Roeger, 617 Delancey street, Philadelphia.

Warehouse (add. and alts.), 110-12 South Front street, $4,100. Architect, H .Rex Stackhouse, 129 South Fifth street, Philadelphia. Owners, I. Reifsnyder & Sons Co., on premises. Brick, 1 side, 18½x7 feet, steel sash, copper, glass. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Building (add.), Southeast Corner Erie avenue and Elder street, $3,000. Architect, private plans. Owner, F. E. Uffenheim, 1316 Erie avenue, Philadelphia. Brick, 2 stories, 11x10 feet, slag roof, yellow pine floors. Contract awarded to Charles T. Clark, 3635 Germantown avenue.

Residences (3), North side Queen street, West of Thirty-fifth street, $16,600. Architect, private plans. Owners, Frank Brook, John W. Hicking and William Clayton, East Falls, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 38 feet, hot water heat, electric light. Contract awarded to William Miller, Glenside, Pa.

Residences (2), Fifty-sixth and Overbrook avenue, Philadelphia, $15,000 each. Architect, private plans. Owner, Mrs. Fannie Egnal, 4146 Leidy avenue, Philadelphia. Stone, 2 stories, 27x42 feet, 10x25 feet, and 2 stories, 30x42 feet, 10x26 feet, slate roof, oak and pine floors, hot water heating, electric lighting ,tile work. Contract awarded to Ike Wolk, 335 Wolf street, Philadelphia.

Auto Show Room, Southwest Corner Twenty-fourth and South streets, $14,000. Architect, private plans. Owners, Thornton Fuller Auto Co., Parkway at Eighteenth street. Brick, 1 story, 71x96 feet, cement floors, electric lighting. Contract awarded to F. T. Mercer & Co., 1916 Brandywine street.

Residence (add.), 4930 North Fifth street, Philadelphia, $2,300. Architect, private plans. Owner, Lillian Remshad, 412 Girard avenue, Philadelphia. Brick, 1 story add., 15½x6½ feet, slag roof. Contract awarded to Thomas Strachan, 5108 Hadfield street.

Residence, East side Claridge street, North of St. Vincent street. Architect, private plans. Owner, George Zeicher, 1536 North Lawrence street, Philadelphia. Frame, 2 stories, 26x38 feet, hot water heat, electric light. Contract awarded to Erbert & Goodnow, 7990 Oxford Pike.

Residences (2), South side Kingsley street, West of Wissahickon avenue, Philadelphia, $5,500 each. Architect, private plans. Owner, Dr. L. F. Koehler, Raymond Building, Germantown, Philadelphia. Brick, 2 stories, 20x34 feet, slag roof, electric lighting. Contract awarded to David Rittenhouse, 6226 Wissahickon avenue.

Residence (add.), 1637 North Eighteenth street, Philadelphia, $3,200. Architect, private plans. Owner, Ida M. Finkbeiner, on premises. Brick, 2 stories, 14x17½ feet, slag roof, electric work. Contract awarded to W. T. Miller, 1536 North Twenty-ninth street, Philadelphia.

Garage (add.), 542 Olney avenue, Philadelphia, $3,800. Architect, private plans. Owner, John J. Trainor, on premises. Brick, 1 story, 42x38 feet slag roof, electric light, cement floors. Contract awarded to Jacob Hansen, Fox Chase, Philadelphia.

Store and Residence (add.), 4156 Ridge avenue, $3,000. Architect, private plans. Owner, M. Whelan, on premises. Brick, second and third story adds., 30x34 feet, slag roof, electric work. Contract awarded to Mitchell-Houseworth Co., 2512 North Seventeenth street.

Garage, 2013-15 North Sixty-third street, Philadelphia, $2,400. Architect, private plans. Owners, Norton & Shaffer ,on premises. Brick, 1 story, 16x20 feet, slag roof, cement floors, electric light. Contract awarded to Walter Schliff, 1310 North Fifty-fourth street, Philadelphia.

Store (add.), 3624 Germantown avenue, Philadelphia, $2,000. Architect, private plans. Owner, Michael Walker, on premises. Brick, 2 stories, 10x56 feet, slag roof, yellow pine floors. Contract awarded to Jacob Y. Loux, Fifteenth and Hunting Park avenue.

Store and Residence (add. and alts.), 313 South Fifty-second street, $2,000. Architect, private plans. Owner, Miss Heaton, on premises. Brick, 1 story add., 3½x14 feet, slag roof, pine floors. Contract awarded to Frank R. Shriver, Fifty-first and Catharine streets.

Residence and Store (add. and alts.), 2201 Spring Garden street, $2,000. Architect, private plans. Owner, Alex. Linkman, 211 South Fifteenth street, Philadelphia. Brick, 1 story add., 20x6 feet, slag roof, pine floors. Contract awarded to S. H. Levin, 1631 South Fifth street, Philadelphia.

Residence (alts. and add.), 5703 Chester avenue, Philadelphia, $3,000. Architect, private plans. Owner, Jack Conff, 42 North Fifty-second street, Philadelphia. Brick, 1 story, 16x16 feet, slag roof. Contract awarded to John E. Crawford, 747 South Fifty-first street, Philadelphia.

Garages (2), Toronto street, East of Twenty-seventh street, $4,000, and Twenty-seventh street, South of Toronto street. Owner, Harry S. Baldwin, 2865 North Twelfth street, Philadelphia. Brick, 1 story, 16x130 feet and 15½x160 feet, slag roof, cement floors. Contract awarded to Eugene M. Mallo, 1037 West Indiana avenue.

Garage, East side Mascher street, North of Clearfield street, $2,500. Architect, private plans. Owner, Howard Drake, Howard and Clearfield streets, Philadelphia. Brick, 1 story, 16x59½ feet, slag roof, cement floors. Contractawarded to Thomas Matthews & Co., 2336 North Hancock street.

Residence and Store (add. and alts.), 923 North Marshall street, $2,200. Architect, private plans. Owner, Jacob Wacler, 605 North Second street, Philadelphia. Brick, 1 story, 12x14 feet, slag roof, electric lighting. Contract awarded to M. Rosenback, 709 Parrish street, Philadelphia.

Residences (2) and Garage, Southeast Corner Rising Sun avenue and Geneva street, $6,750. Architect, private plans. Owner, Fred Detman, 1955 North Seventh street, Philadelphia. Brick, 2 stories, 17x51 feet, slag roof, electric work. Contract awarded to D. Wittenberg, Holmes, Pa.

Residences (2), South side Disston street, East of Marsden, $5,500 each. Architect, private plans. Owner, H. M. Tise, 3526 Princeton street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 54 feet, slag roof, hot water heating. Contract awarded to E. S. Tise, 3526 Princeton street, Philadelphia.

Residences (2) (add.), 885-87 North Sixty-sixth street, $3,500. Architect, private plans. Owners, Ishard & Orleans, 125 South Fifth street, Philadelphia. Brick, 1 story, 15x6 feet 4 inches, slag roof, yellow pine floors.

Contract awarded to M. Weisman, 3112 West Arizona street .

Residences (2) (add.), 2516-18 South Seventy-second street, $2,200. Architect, private plans. Owner, Isaac Sidewater, Seventy-second and Theodore streets, Philadelphia. Brick, second story add., 14x28 feet, slag roof, oak and pine floors, electric light. Contract awarded to James Bradshaw, Elmwood avenue and Island Road.

Residences and Stores (2) (alts. and add.), 3611-13 Market street, $4,000. Architect, private plans. Owners, Horwitz Brothers, 3506 Market street, Philadelphia. Brick, 1 story, 16x8½ feet, slag roof, electric work. Contract awarded to D. Rosenberg, 2510 South Eighth street, Philadelphia.

Residence (add.), 3123 Montgomery avenue, Philadelphia, $2,500. Architect, private plans. Owner, M. Lubarsky, on premises. General interior alterations. Contract awarded to C. Schnitzer, 2513 North Thirty-first street, Philadelphia.

Residence and Store (alts.), 104 South Fortieth street, Philadelphia, $3,500. Architect, private plans. Owner, Miss Emily A. Louden, on premises. General interior alterations. Contract awarded to Warren E. Biscoe, 4224 Brown street.

Garage, South side Haines street, West of Carlisle street, $2,000. Architect, private plans. Owner, Edward Brunner, on premises. Stone, 1 story, 21x40 feet, slate roof, cement floors. Contract awarded to A. E. Voight, 6108 North Tenth street, Philadelphia.

Residence and Store (add.), 2420 East Clearfield street, $2,000. Architect, private plans. Owners, P. Faber & Son, 2420 East Clearfield street, Philadelphia. Brick, 1 story, 15x2½ feet, slag roof, yellow pine floors. Contract awarded to J. Maurer & Co., 1304 North Second street, Philadelphia.

Garage and Residence, Southwest Corner Forty-third and Locust streets, $9,500. Architect, private plans. Owner, C. L. Furbush, on premises. Brick, 2 stories, 23½x32 feet, slate roof, yellow pine and cement floors, hot water heat, electric light. Contract awarded to John B. Kelly, 2313 Walnut street, Philadelphia.

Building (alts. and add.), 319 South street, $5,000. Architect, private plans. Owner, M. Kanofsky, on premises. Brick, 2 and 1 stories, 3x16 feet, 4½x24 feet, slag roof. Contract awarded to Max Sklar, 648 Pine street, Philadelphia.

Residence (alts. and add.), 221 Allens Lane, $7,000. Architect, private plans. Owner, Edith R. Dunn, on premises. Brick, 2 stories, 12x14 feet, 8x16 feet, slag roof, oak and pine floors, tile work, electric light. Contract awarded to Wolverton & Co., East Willow Grove avenue, Philadelphia.

Garage, 1516-18 North Marston street, Philadelphia, $6,000. Architect, private plans. Owner, A. G. Berger, 1519 North Twenty-eighth street, Philadelphia. Brick and steel, 1 story, 36x78 feet, slag roof, cement floors. Contract awarded to F. I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Office (alts.), East side Beach street, South of Susquehanna avenue, $5,800. Owner, William M. Lloyd, Twenty-ninth and Ridge avenue, Philadelphia. Brick, 2 stories, 17½x27 feet, slag roof, maple floors, electric light. Contract awarded to J. Morris Daniels, 320 South Quince street, Philadelphia.

Garage, 2925-29 Reed street, Philadelphia, $3,500. Architect, private plans. Owner, H. Milvaney, 1407 South Twenty-ninth street, Philadelphia. Brick, 1 story, 50x56 feet, slag roof, cement floors. Contract awarded to W. Martin, 2430 South Hicks street, Philadelphia.

Two-Family Residence (add.), 424 North Sixty-fourth street, Philadelphia, $2,000. Architect, private plans. Owner, Nicola Beaumore, on premises. Brick, 2 stories, 15½x27 feet, slag roof, yellow pine floors, electric work. Contract awarded to Alfonso Verdi, 6145 Girard avenue, Philadelphia.

PENNSYLVANIA
Construction News

School, Abington, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School Board of Abington, Pa. Brick, steel and cut stone, 2 stories, 76x213 feet, slag roof, maple floors, steam heat, electric light, metal lath, tile work, iron work. Owners taking bids due July 14th at 8 P. M.

Academy, City avenue and Haverford road, Overbrook, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, Academy of the Sacred Heart, 1835 Arch street, Philadelphia. Brick, cut stone and steel, 3 stories, 174x42 feet, (4) wings, 51x39 feet, 92x59 feet, 89x42 feet and 39x88 feet, slate and asbestos asphalt roof, concrete, oak and composition floors, hollow tile, waterproofing, terra cotta, iron stairs and work, bond, kalamein doors, rolled steel sash and skylights, tile and marble, metal lath (heating, plumbing, electric work and elevators, separate bids). Architect taking bids due June 12th.

Central High School, Scranton, Pa. Architect, Edward W. Langley, Scranton Life Building, Scranton, Pa. Owners, School District, Scranton, Pa. Brick, terra cotta, limestone and steel, (2) wings, 26x82 feet and 123x50 feet wing, composition and Spanish tile roof, concrete and maple floors, hollow tile, metal weather strip, waterproofing, floor hardener, bond, fire and kalamein doors, tile, marble and terrazzo, metal lath (plumbing, heating and lighting separate bids). Owners taking bids due July 8th.

Gymnasium, Easton, Pa. Architect, Willis Bosworth, 527 Fifth avenue, New York City. Owners, Lafayette College, Easton, Pa. Slag and copper roof, concrete and maple floors, hollow tile, waterproofing, iron work, floor hardener, kalamein doors, rolled steel skylights, metal lath, tile work. Architect taking bids due July 19th.

Residence, Wyomissing, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, G. F. Light, Reading, Pa. Brick, hollow tile, 2½ stories, 41x49 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Architect taking bids due as soon as possible.

Residences (6), Collingdale, Pa. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, R. T. Burleigh, Collingdale, Pa. Frame, 2½ stories, 32x28 feet, shingle roof, pine floors, hot air heat, electric light. Owner will build.

Residence, Lansdowne, Pa., $8,000. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, G. A. Meissner, Lansdowne, Pa. Stone and stucco, 2½ stories, 25x38 feet, shingle roof, hardwood floors, hot water heat, electric lighting. Architect is taking bids.

Semi-Detached Residences (6), Darby, Pa. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, C. F. Eggleston, care of builder. Brick, 2 stories, 34x30 feet, slag roof, hot water heat, electric lighting, hardwood and pine floors. R. T. Burleigh, Collingdale, Pa., will build.

Residence, Garage and Green House, Merion, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, Helen L. Scott, care of architects. Brick, 2½ stories, 47x27 feet, wing 20x30 feet, greenhouse, 16x10 feet, shingle roof, hardwood and cement floors, hot water heat, electric light, tile work, glazing. Architects are taking sub-bids.

Residence, Cynwyd, Pa. Architect, private plans. Owner, A. Rothwell Meehan, 6747 Germantown avenue. Stone and stucco, 2½ stories, 37x24 feet, shingle roof, oak and pine floors, tile work. Owner taking bids due as soon as possible.

Store and Residence (alts. and add.), 115 North Ninth street, Reading. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, J. N. Heilman, on premises. Brick, 2 stories, 45x15 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids due July 10th.

Freight House (add.), Lancaster, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Reading & Columbia R. R., Reading Terminal, Philadelphia. Brick and steel, 1 story, 30x182 feet, J. M. roof, maple and concrete floors, electric light, rolled steel sash, bond, iron work. Engineer taking bids due July 8th.

Grade School, Abington, Pa. Architects, Heacock & Hokanson, Bailey Buliding, Philadelphia. Owners, Township of Abington, care of Charles M. Doll, McKinley, Pa. Stone, 2 stories and basement. Owners taking bids due at Abington High School, July 7th, at 8 P. M. Plans ready at architects' office.

Church and Parish House (alts.), Berwyn, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, St. Monica's Roman Catholic Church, care of Rev. John A. Carey ,premises. Stucco, 18x20 feet, slate roof, carpentry, mill work, metal lath, painting, glazing, hardware, iron work. Architect taking bids due July 7th.

Public Comfort Station, Market Square, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, City of Harrisburg, care of Mr. Lynch, Dauphin Building, Harrisburg, Pa. Concrete, 1 story, 55x60 feet, asbestos roof, tile floors, electric light, plumbing. Owners taking bids due July 12th.

High School, Sixth and Division streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Board of Directors of School District of Harrisburg, D. D. Hammelbaugh, secretary, Harrisburg, Pa. Lowest bidders: C. W. Strayer, Green and Forster streets, Harrisburg, $497,000. Electrical, Dauphin Electric Co., Harrisburg, Pa., $11,721. Heating and ventilating, E. J. Fogarty, Harrisburg, Pa., $59,475. Plumbing, E. J. Fogarty, Harrisburg, Pa., $30,400.

Residence and Garage, Cynwyd, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, Clarence H. Vanderbeck, Cynwyd, Pa. Stone, 2½ stories, 20x80 feet and 22x22 feet, shingle roof, hardwood floors, vapor heat, electric light, tile and marble, cement work. Plans completed. Architects are ready for bids.

School (alts. and add.), Bryn Mawr, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, School Board of Lower Merion Township, Bryn Mawr, Pa. Lowest bidders: Edward Fay & Son, 2 South Mole street, $151,519; J. S. Rogers Co., Drexel Building, $168,600. Heating, Walters, Purks & Mellon, 4419 Ludlow street, $22,922. Venti-

lating, S. P. Call, 610 Callowhill street, $8,035. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, $5,100. Electric, Baird Osterhout Co., 2109 Walnut street, $1,716.

Garage, Reading, Pa. Architects, Gerhard Brothers, 619 Penn street, Reading, Pa. Owners, Luden Company, care of architects. Brick, 1 story, 94x16 feet, composition roof, concrete floors, electric light. Architect is sub-letting.

Residence and Garage, Merion, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, Odin Dorr, The Clinton, Philadelphia. Hollow tile and stucco, 2½ and 1½ stories, shingle roof, oak, pine and cement floors, hot water heat, electric light, tile work, dampproofing. Architects taking bids due July 7th.

Borough Hall, Bridgeport, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Borough of Bridgeport, Pa. Lowest bidder: Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia, $29,900.

Hotel and Office Building, Hazleton, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, George B. Markle, Hazleton, Pa. Preliminary sketches drawn. Too early for details.

Warehouse and Machine Shop, Reading, Pa. Architects, Gerhard Brothers, 619 Penn street, Reading, Pa. Owners, Reading Hardware Co., care of architects. Steel construction, 7 stories, 80x240 feet, 80x90 feet, composition roof and floors, Webster system heating, electric light, (3) freight elevators, steel sash, fire and kalamein doors, structural terra cotta. Architects ready for sub-bids.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Bids opened June 27th. Low bidders:

Cumberland County, Upper Allen Township and York County, Carroll Township, R-123, bridge over Yellow Breeches Creek, reinforced concrete. G. A. & F. M. Wagman Co., Dallastown, Pa., $18,378.01.

Armstrong County, R-251, Parker City Borough, 6,067 feet. One course reinforced concrete and hillside vitrified brick. Jones Const. Co., Salem, Ohio, $65,398.50.

Butler County, R-251, Bruin Borough and Parker Township, 13,917 feet. One course reinforced concrete and hillside vitrified brick. C. E. Walter, Butler, Pa., $131,455.24.

Cambria County, R-62, Cambria Township, 9,596 feet. One course reinforced concrete. Lord Const. Co., Hastings, Pa., $74,818.50.

Cambria County, R-221, Elder and East Carrol Townships ,23,751 feet. Brick or one course reinforced concrete and hillside vitrified brick. Lord Const. Co., Hastings, Pa., $224,600.10.

Clarion County, R-237, North Bethlehem Borough, 2,510 feet. One course reinforced concrete. L. H. Hileman Const. Co., New Kensington, Pa., $17,980.05.

Clarion County, R-214, Clarion and Monroe Townships, 14,636 feet. One course reinforced concrete and hillside vitrified brick. Thomas W. Munro & Co., Dubois, Pa., $152,667.60.

Crawford County, A-1867-1868, Cambridge and Rockdale Townships, 7,000 feet. One course reinforced concrete. Penn-Erie Const. Co., Erie, Pa., $46,099.40.

Indiana County, R-262, Greene, Grant and Montgomery Townships, 28,325 feet. One course reinforced concrete. Booth & Flinn, Ltd., Pittsburgh, Pa., $205,237.56.

Jefferson County, R-338, A-995-1009, Sykesville Borough and Winslow Township, 18,716 feet. One course reinforced concrete. Mason & Hanger Co., Inc., Dubois, PPa., $164,622.91.

Luzerne County, R-4, Salem Township, Shickshinny Borough, 12,048 feet. One course reinforced concrete. D. L. Risser, Lebanon, Pa., $112,681.85.

McKean County, R-100-101, Port Allegheny Borough, Liberty Township, 24,039 feet. Geo. Metzger, Jr., Emporium, Pa., $197,134.48.

Montour and Northumberland Counties, R-2, Point Township, Danville Borough, 15,659 feet. D. L. Risser, Lebanon, Pa., $151,328.20.

Susquehanna County, R-174, Harford Township, 20,057 feet. One course reinforced concrete. R. D. Richardson Const. Co., Scranton, Pa., $190,352.50.

Bradford County, R-20, Troy and Columbia Townships. Juniata Company, Empire Building, Philadelphia, $89,000.

Lackawanna County, R-322, A-1632, Scott Township. M. & T. E. Farrell, West Chester, Pa., $81,000.

Low bidders on road work opened June 28th:

Bradford County, R-20, South Creek Township, 25,082 feet. One course reinforced concrete. Henry W. Horst Co., Rock Island, Ill., $197,759.06.

Cambria County, R-54, Black Lick Township, 21,044 feet. Booth & Flinn, Ltd., Pittsburgh, Pa., $162,042.03.

Clarion County, R-214, Brady Township, 9,638 feet. One course reinforced concrete. Thomas W. Munro & Co., Dubois, Pa., $81,238.75.

Clearfield County, R-234, A-1477, Irvona Borough, 7,118 feet. One course reinforced concrete. W. B. Hughes, Clearfield, Pa., $54,345.50.

Erie County, A-1880-1875, Leboeuf Township and Mill Village Borough, 7,856 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Penn-Erie Const. Co., Erie, Pa., $58,919.10.

Erie County, A-1872-1874, Washington Township and Edinboro Borough, 12,787 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Penn-Erie Const. Co., Erie, Pa., $122,342.12.

Indiana County, R-228, Jacksonville Borough, White Centre, Black Lick and Young Townships, 39,082 feet. One course reinforced concrete. Torquato Brothers Co., Windber, Pa., $296,376.25.

Indiana County, R-228, Young Township, 27,632 feet. One course reinforced concrete. Torquato Brothers Co., Windber, Pa., $233,021.10.

Lackawanna County, R-365, A-1758, North Abington and Benton Townships, 24,856 feet. One course reinforced concrete. William C. Evans, Ambler, Pa., $181,686.88.

Lawrence County, R-79, Shenango and Slippery Rock Townships, 27,081 feet. One course reinforced concrete. Woods & Golder, New Castle, Pa., $207,625.50.

Susquehanna County, R-12, A-1857, Bridgewater and Dimock Townships, 22,035 feet. One course reinforced concrete. William C. Evans, Ambler, Pa., $174, 478.35.

Westmoreland County, A-281, Lower Burrell Township, 803 feet. One course reinforced concrete. State Const. Co., New Kensington, Pa., $13,504.50.

Hotel (alts.) to Apartment, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, Mr. Bush, care of architect. .General interior and exterior work, hardwood floors, tile work. Plans in progress.

Bank, Center Square, York, Pa., $100,000. Architects, Gemmill & Billmeyer, Rosenmiller Building, York. Owners, First National Bank, York, Pa. Marble, 1 story, 33x114 feet, concrete foundations and roof, rubber tile floors, tile and marble work, steel skylights, roof ventilators. Revised plans in progress.

Residence and Garage, West Market street, York, Pa. Architects, Hamme & Whitman, City Bank Building, York, Pa. Owner, S. G. Gothwald, 15 South West street, York, Pa. Brick, 2 and 1 stories, 32x38 feet, 20x24 feet, tile roof, hardwood and concrete floors, vapor heat, electric light, tile and marble work. Owner taking bids due July 8th.

School, West York, Pa. Architects, Hamme & Whitman, City Bank Building, York, Pa. Owners, West York School Board, H. W. Lauer, secretary, West York, Pa. Brick, 2 stories, 4 rooms, slate room (heating, plumbing and electric work reserved). Owner is sub-letting.

Residence, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, R. Zimm, York, Pa. Stucco, 2 stories, 38x29 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Owner will build.

Pennsylvania Contracts Awarded

Residence, Ardmore, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, I. L. Gifford, care of architect. Stone and frame, 2½ stories, 25x41 feet, hot water heat, electric light, hardwood floors, tile work. Contract awarded to Clark Brothers, 1504 South Twenty-eighth street.

Residence, Aldan, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, H. M. Collins, care of architect. Hollow tile and stucco, 2 stories. Contract awarded to Adolph Korn & Co., 1718 Sansom street.

Residence, Overbrook, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Edward Dixon, care of architects. Hollow tile and stucco, slate roof. Contract awarded to Frank C. Hood, 1613 Chestnut street.

Administration Building (add.), 31 South Penn street, Allentown. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, School District of Allentown, David Jacks, chairman, Allentown, Pa. Brick, fireproof, 3 stories, 52x64 feet, slag roof, hardwood floors, electric lighting, tile work. Contract awarded to Butz & Clader, Allentown, Pa.

Apartment, Glen Rock, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, Mrs. Neil V. Sheffey, on premises. Brick, 3 stories, 30x36 feet, slag roof, hardwood floors vapor heat, electric light, tile work. Contract awarded to H. M. Roser, Glen Rock, Pa.

Residence and Garage, Swarthmore, Pa. Architects, G. Edwin Brumbaugh and William Pope Barney, Real Estate Trust Building, Philadelphia. Owner, Carl H. Chaffee, care of architects. Stone and steel, 2½ stories, 29x31 feet, wings 35x20 feet and 25x35 feet, garage, 1½ stories, 28x24 feet, slate roof, linoleum, linotile, cement and pine floors, metal lath, dampproofing, iron work, bond, tile and marble work (heating, lighting and plumbing reserved). Contract awarded to James H. Wells, 34 South Sixteenth street, Philadelphia.

Garage and Service Building, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, I. K. Wetzell, Shamokin, Pa. Brick, hollow tile and castone, 2 stories, 80x100 feet, asbestos built up roof, reinforced concrete floors, elevator, structural steel, fire doors, rolled steel sash, steam heat, electric light. Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

Residence, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Harry Kerber, Jenkintown, Pa. Stone, hollow tile and stucco, 2½ stories, 28x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile and iron work. Contract awarded to Penn Building Co., 1504 West Venango street.

Residence, Wyomissing, Pa. Architect, Calvin Young, 226 North Sixth street, Reading,

Pa. Owner, E. E. Hartman, care of architect. Brick, 2½ stories, 34x27 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to A. Borrey, Reading, Pa.

Residence, Merion, Pa. Architect, Frank R. Seeburger, 1524 Chestnut street, Philadelphia. Owner, Morris T. Greenwood, care of architect. Stone, 2 stories, 30x47 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to John E. Kearney, 34 South Seventeenth street, Philadelphia.

New Jersey Construction News

Main School (alts. and add.), Bordentown, N. J. Associate architects, Guilbert & Betelle and Arnold Moses. Owners, Care of Commission of Education, State House, Trenton, N. J. Lowest bidders: Carroll & Pullen, Princeton, N. J., $96,000; William Linker Co., 735 Cherry street, Philadelphia, $106,400. Heating and ventilating, Mechanical Equipment Co., Bourse, Philadelphia, $15,344. Plumbing, Jachnig & Peoples, Newark, N. J., $6,653. Electric, J. F. Buchanan Co., 1719 Chestnut street, Philadelphia, $2,372.

Warehouse, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owners, Camden Electric Co., 111 North Forty-second street, Camden, N. J. Brick, steel, 2 stories, 50x90 feet, slag roof, concrete floors, electric light, tin covered doors. Plans in progress.

Store and Apartment, Vineland, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, M. Zukeman, Vineland, N. J. Brick, 2 stories, 58x38 feet, slag roof, pine floors, steam heat, electric light, plate glass. Owner taking bids.

Store Building, Broadway and Spruce streets, Camden, N. J. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owners, Harry Pinsky Sons Co., on premises. Brick, steel and reinforced concrete, 5 stories and basement, 56x92 feet, slag roof, cement, oak and maple floors, hollow tile, metal lath, terrazzo, rolled steel sash, hollow metal skylights, fire, Peele, hollow metal and rolling steel doors, ornamental terra cotta, iron work (elevators reserved) (heating, lighting and plumbing separate bids). Architect taking bids due July 12th.

Chancel and Boiler House, Pacific and Kentucky avenues, Atlantic City, N. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Church of the Ascension, Atlantic City, N. J. Brick, precastone and steel, 1 story and basement, 65x50 feet, slag and tile roof, pine floors, electric work, metal lath, bond, iron work. Architect taking bids due July 11th at noon.

Promotional Cottage, Trenton, N. J. Architect, Burton G. Lewis, Comm. Institutions and Agencies, Trenton, N. J. Owners, New Jersey State Home for Girls, Trenton, N. J. Brick, stone and steel, 2½ stories, 79x27 feet and 48x27 feet, slate roof, cement and pine floors, hollow terra cotta tile, metal lath, tile and marble, waterproofing, floor hardener. Owners taking bids.

New Jersey Contracts Awarded

Newcomb Hospital, Vineland, N. J. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Newcomb Hospital, Vineland, N. J. Brick, concrete, stone and steel, 2 and 3 stories and basement, 175x60 feet, cement floors, metal lath, waterproofing, iron work, bond, rolled steel skylights, tile, marble and terrazzo (plumbing, electric work, heating, elevators and dampproofing reserved), metal lumber. Contract awarded to J. M. Yardley, 1716 Sansom street, Philadelphi.

Armories, Salem, N. J., and Mt. Holly, N. J. Architects, Department of Institutions and Agencies, Division of Architecture, Trenton, N. J. Owners, State of New Jersey, Capitol Building, Trenton, N. J. Brick and steel, 2 stories, 96x76 feet, tin roof, pine floors, metal lath, tile work. Contracts awarded. Armory, Salem, Monaghan & Lossee, 3016 Chestnut street, Philadelphia, $51,094. Armory, Mt. Holly, McCloskey & Co., 1620 Thompson street, Philadelphia, $51,151.

Power House and Kitchen add., Abescon, N. J., $103,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Seaview Golf Club, care of C. H. Geist, Land Title Building, Philadelphia. Brick, stone and steel, 1 story, 40x50 feet and 40x120 feet, slag roof, cement and pine floors, steam heat, electric light, iron work. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Bungalow, Haddonfield, N. J. Architects, Druckenmiller & Williams, 1537 Chestnut street. Owner, Earl W. Page, Haddonfield, N. J. Frame, 1½ stories, 36x45 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to E. F. Webster, Haddonfield, N. J.

School, Upper Deerfield, Cumberland County, N. J. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owners, School District of Upper Deerfield, N. J. Brick and frame, 8-room addition. Contract awarded to H. H. Hankin & Brother, Bridgeton, N. J.

School (add.), Gibbstown, N. J. Architect, Frank F. Sanders, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, Gibbstown, N. J. Stone, 2 stories, 87x108 feet, composition roof, maple floors, metal lath, iron work, hollow metal skylights. Contract awarded to Victor Gondos, Franklin Trust Building, Philadelphia, $66,500; add $200.

Miscellaneous Construction News

Church and Sunday School (alts.), Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Hanover Presbyterian Church, care of architects. Brick and steel, 1 story, 104x64 feet, slate roof, composition and tile floors, hollow tile, steam heat, electric light, sheet metal work. Architects taking bids due July 7th.

Miscellaneous Contracts Awarded

Residence (alts. and add.), Wilmington, Del. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, William S. Spruance, Wilmington, Del. Brick, 2 stories, 15x40 feet, slag roof, oak and pine floors, electric lighting, tile work. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Church (alts. and add.), Ninth and Market streets, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, First and Central Presbyterian Church, Dr. Aquilla, Thirteenth and Washington streets, Wilmington, Del. Brick, concrete, mill work, 1 story, 59x126 feet, Phoenix composition roof, pine floors (heating, plumbing and electric work reserved), bond. Contract awarded to E. L. Johnson, 1316 Clayton street, Wilmington.

Residence (alts. and add.), Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owner, John Bird, care of architects. Stone, 2 stories, 30x40 feet, hardwood floors, general alterations. Contract awarded to Smyth Const. Co., 826 Orange street, Wilmington, Del.

Store (alts. and add.), 704-06 Market street, Wilmington, Del. Architect, J. D. Thompson, Ford Building, Wilmington, Del. Owner, care of architect. Brick, 2 stories, 40x80 feet, slag roof, hardwood floors, electric light, tile work, rolled steel skylights, plate glass. Contract awarded to J. E. Healy & Sons, 707 Tatnall street, Wilmington, Del.

Residence (alts.), Red Oak road, Wilmington, Del. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Thomas F. Bayard, Wilmington, Del. Contract awarded to Dennis M. Buckley, 1702 Union street, Wilmington, Del.

Synagogue and Community Building, Frederick, Md. Architect, Edward L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Lee Weinberg, Knights of Pythias Building, Frederick, Md. Stone and brick, 3 stories, 50x100 feet, slag roof, composition, stone and pine floors, mill work, steam heat, electric light, tile work, plastering. Contract awarded to Thomas Strachan, 5017 Hatfield street, and Baltimore, Md.

Country Club, Greensboro, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owners, Greensboro Country Club, care of A. J. Clutz, chairman of Building Committee, Greensboro, N. C. Hollow tile and stucco, 2½ stories, 105x50 feet, tile roof, hardwood floors, vapor heat, electric light, tile and marble work. Contract awarded to R. K. Stewart & Co., High Point, N. C.

Bank, 58 Bowery, New York. Architect, Clarence Brazer, 1133 Broadway, New York. Owners, Citizens' Savings Bank, care of architect. Cut stone, fireproof, 2 stories, 75x85 feet, stone and copper roof, marble and cork tile floors, steam heat, electric light, tile and marble work, hollow tile, metal lath, elevators, steel sash, roof ventilators, metal window guards, waterproofing and dampproofing. Contract awarded to William L. Crow Const. Co., 103 Park avenue, New York.

Proposals

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF HIGHWAYS,
Room 232, City Hall.
Philadelphia, Pa., June 29, 1922.

Sealed proposals will be received and opened in Room 216, City Hall, at 12 o'clock noon, Tuesday, July 11th, 1922, for: Grading, Asphalt Paving (Assessment Work), Redressed Granite Block Paving, Asphalt Repaving, Redressed Granite Block Repaving, Country Road Improving, the extension of Delaware Avenue from Columbia Avenue to Dyott street, Ready-Mixed Concrete, Paving Gravel, Portland Cement, Crushed Stone, Bituminous Material, Asphalt Paving Mixtures, Caps, Drivers', Helpers', Blockmen's and Gangmen's Uniforms, Material for Repairs to Bridges.

FRANK H. CAVEN,
Director.

(Continued from Page 424)

and the Federal Government have been working out their problems of co-operation and I believe they have their major problems pretty well settled. That leaves that industry organized in such a way that it can co-operate with any major con-

struction council that may be set up to solve the large construction problems in the interest of the public.

"The Highway Commission is willing to co-operate and is organized to fill any opening and to fall into step without practicing marching order very much."

In speaking for the engineers, Mr. Calvert Townley, of the Westinghouse Electric and Manufacturing Company of New York said:

"The engineers believe in organization and in organization for public service. That was the motive which led them to organize their own organization. They do not feel that organization for public service means a sacrifice of private industry. It means the increased reward for private industry because not only does the organization have a feeling of satisfaction, of good well done, but they reap a large pecuniary reward in the important character of their reputation among their associates who come to believe in them, which of course results in time in a very great increase in business.

"A movement to co-ordinate with the object of performing better public service is distinctly a move in the right direction."

Owing to illness, Franklin D. Roosevelt, President of the American Construction Council, was unable to be present at the meeting. The following letter from him was read:

I much regret that I am unable to be present at the organization meeting of the American Construction Council, but I know that under the inspiring leadership of Mr. Hoover the conference will be, not merely an opportunity to get at facts, but will result in a definite move for the good of the nation.

There is absolutely no doubt that the construction industry must do something constructive! I refer not to abuses of power in the past, by this, that or the other individual or local organization; I speak of the fact that an immense sum of money, energy and happiness on the part of the American people can be saved if the existing waste is eliminated.

In my judgment the American Construction Council must be broad enough to include every element, and it must be strong enough to strike at any individual or association of individuals which fails to live up to certain simple standards of ethics in business dealings. It may be felt by some that there would be danger through the limitation of freedom of action of the individual, but it must be remembered that the public as a whole are concerned in the efficiency, honesty and honor of all the groups constituting the construction industry. It goes without saying that if the members of the construction industry are unable to keep their own house in order, an exasperated public will some day regulate their house for them.

Employers and employes, the suppliers of materials of all kinds, architects, engineers, builders, public servants of every governmental sub-division, all are concerned in making this project a success. We cannot hope for Utopia in a week or a year, but it is through the spirit of getting together to further common American ideals that this conference will, I feel certain, take a step which will have wide bearing on the industrial and economic life of tomorrow. We must all, for the moment, lay aside our individual doubts and differences—most of them are temporary, most of them are local in effect. In their place we must set before ourselves national problems—not merely of today, but of tomorrow also.

Franklin D. Roosevelt, formerly Assistant Secretary of the Navy, was formally elected President of the American Construction Council, at the end of a two days' session held in Washington, at which leaders of the Construction Industry gathered to organize a body representative of all construction elements. John B. Larner, Vice President of the American Bankers' Association, and President of the Washington Loan and Trust Company, was elected Treasurer.

The immediate program of action suggested for the new Council include:

The formation of a code of ethics acceptable to the whole industry and to the public;

The gathering of adequate statistics from all sources and resulting interpretation having all the facts;

The reduction of the national shortage of buildnig trades mechanics and the establishment of the necessary apprenticeship system;

Co-operation in establishing uniform building codes throughout the country;

Co-operation with the railroads in expediting the revision of existing freight rates on construction materials. The establishing and strengthening of local organizations throughout the country to bring about the co-operation of all elements in conformity with the principles of the Council;

The mitigation of the evils of seasonal employment and trade mitigation of labor;

The encouragement of local building shows;

Simplification, standardization and elimination of waste;

Education of the public to the distribution of its construction and maintenance requirements more evenly throughout the year;

The promotion of health and safety of workmen;

The reduction of loss of life and waste of construction materials from preventable fires;

The study of old buildings in order to establish superior methods of construction;

The education of the public as to the necessity and economy of properly maintaining existing structures.

Mr. Walter Gordon Merritt, attorney in New York City, in presiding at the meeting of the Council emphasized the need of the co-operative action that the Council will bring about.

"The evils of the construction industry," he said, "are the evils of organizations, not the evils of individuals. Those evils have come about because of the selfish aims of the individual organization. The need is to restrain these selfish aims, and to have each group lay down a code of practice which must pass the judgment and be in accord with the rules and principles of the American Construction Council."

In stressing the necessity to work hand in hand with labor, he said that the organized labor movement is big enough to meet with and discuss its own problems with any of its critics.

"If we all meet and reason together," he continued, "we shall think, feel, and act together. The relation at the present time between employers and employees in the building trades, is one of periodic armistice. This Council must work out a plan of common counsel and joint action.

"One of the most important things which the Council must work out is a method of arbitration. All contracts should be subject to arbitration in accord with the rules of the Council laid down by men of practical standards.

"One of the greatest evils in the industry is the bargaining with corruption for fear that any attempt to uncover that corruption will embarass future relations."

With reference to jurisdictional disputes, he stated that is is not legal to restrict the construction of metal doors, for instance, to metal workers or any particular work to any particular group of workmen. He held that the employer should be free to hire anybody or any job who can do the work for the wage paid, and that the need was for a broader craftsmanship rather than a more highly specialized one.

"This Council," he concluded, "must work out these problems. It must work through common counsel, co-operation and education. Such collective action will not stifle American individualism, but rather such collectivism will further that individualism. We unite to further liberty, not to restrict it."

(Continued Next Week)

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank. Ornamental Iron Works.
1505 N. Mascher St., Phila.
Potts, Horace T. & Co. .....316 N. 3rd St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR HARDENER.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HARDWOOD FLOORS.
Geiger, A. F..S. E. Cor. Felton and Media Sts., Phila.

HAULING CONTRACTORS.
Kane & Co. .....1226 N. 9th St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Mont Clare Foundry Co.,
N. E. Cor 11th and Ridge Ave., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

INSULATION.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE.
Insurance Co. of North America,
3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....531 N. 4th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LEVELS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

LIGHT IRON CONSTRUCTION.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

LUMBER.
Felin, Chas. F., & Co.,
Old York Road, above Butler St., Phila.
Haney-White Co. .....17th and Glenwood, Phila.
Irwin, James M., & Co. .....976 N. 8th St., Phila.
Kugler, Geo. W., & Sons Co.,
915 New Market St., Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

MARBLE MOSAIC.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

METAL LATH.
Donnelly & Co. .....531 N. 4th St., Phila.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co.....1345 Arch St., Phila.

METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

MILL WORK.
Haney-White Co. .....17th and Glenwood, Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

OFFICE PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

ORNAMENTAL IRON.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

PAINTING (Plain and Decorative).
Clark, M. H. .....58th and Larchwood Ave., Phila.

PAINTS AND VARNISHES.
Truscon Laboratories.....1432 S. Penn Square, Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.

PIPE COILS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

PIPE AND PIPE FITTINGS.
Grant, Chas. J., Supply Co.,
25th and Morris Sts., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Vogel, Joseph, Co. .....Wilmington, Del.

RANGES
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATORS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

ROAD WORK.
Croyle, Guy .....Merion Station, Pa.

ROOFING.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.
Tinney, Walter H., Co.,
63rd and Woodland Ave., Phila.

ROOFING SLATE.
Baird, A. S. .....24 S. 7th St., Phila.
Chapman Slate Co. .....Bethlehem. Pa.
Emack, The John D., Co. .....Otis Bldg., Phila.

ROOFING TILE.
Baird, A. S. .....24 S. 7th St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,
Nicetown Lane and Powder Mill Road, Phila.

SAFETY GUARDS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

SAND AND GRAVEL.
Baird, A. S. .....24 S. 7th St., Phila.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co.,
24th and Callowhill Sts., Phila.
Magna Sand Co. .....139 S. 3rd St., Phila.

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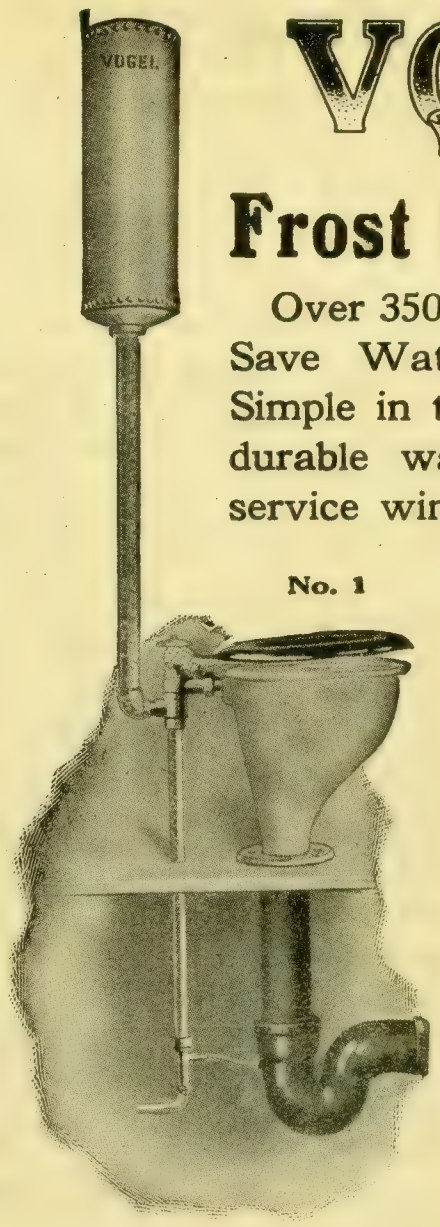
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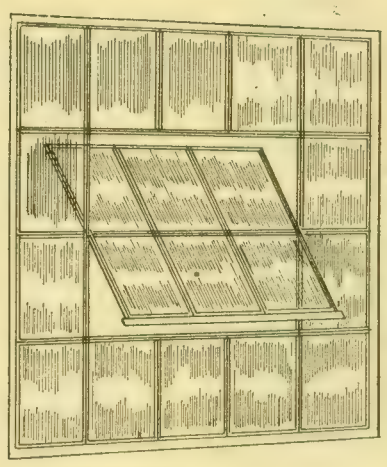


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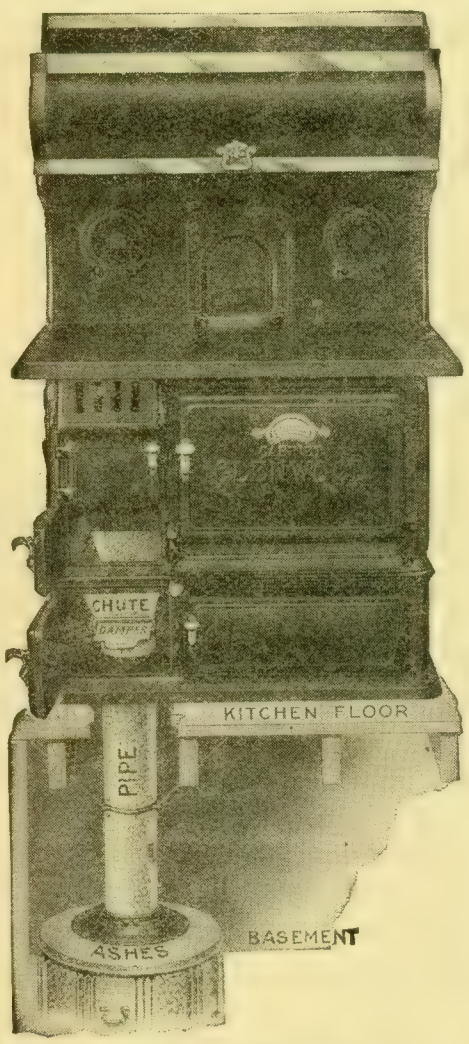
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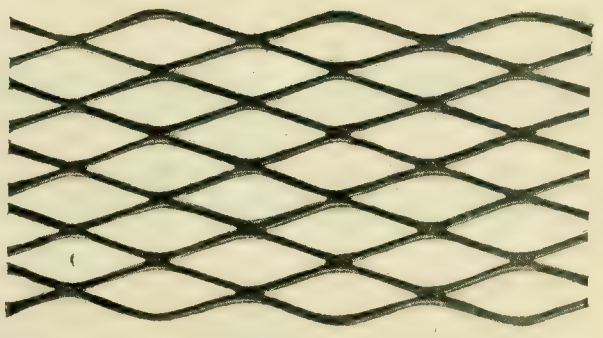
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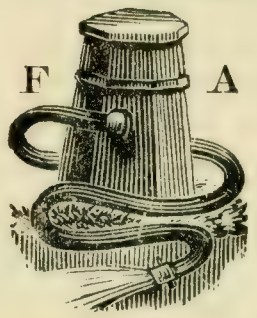
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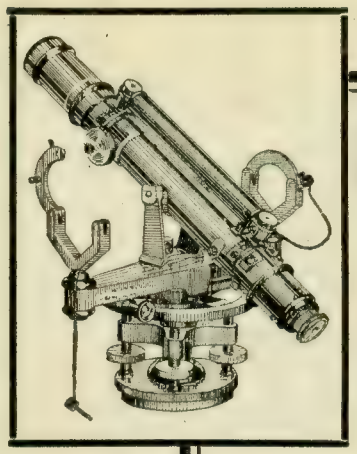
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 28

PHILADELPHIA
July 12, 1922

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
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As The Editor Sees It

THE semi-annual report of building operations in Philadelphia for the first six months of this year, published in full on other pages of this issue of the GUIDE is evidence that Philadelphia is experiencing the greatest building boom in its history. The great increase in building is noticeable in all types of building and in all sections of the city, especially in dwellings. In the first half of 1921 permits were issued for only 1,683 new buildings at an estimated cost of $10,471,290. In the first six months of 1922, permits for new buildings totaled 6,498 at an estimated cost of $44,785,-830. In 1921 additions, alterations, and repairs for first six months totaled 3,693 at cost of $5,705,770; this year 3,868 costing $7,247,765. Total work of all kinds including new buildings, additions, alterations, repairs and miscellaneous for first half of 1922, 11,613 permits for value of $52,429,145, compared to 6,893, costing $16,605,310 for first six months of 1921. The increase in building was not confined to any one month but every month showed a larger number of permits issued this year than in corresponding months of last year. June showed a greater increase than any other month and broke all monthly records with a total valuation of permits granted of $13,190,-220. Never have the first six months of any year exceeded the total for the first half year of 1922, $52,429,145.

The greatest increase in the six months' from January to July in 1922 over the same period in 1921 occurred in dwellings of the two story type. In 1921 536 operations costing $2,772,375 were begun; in 1922 4,744 operations costing $21,256,-015 were started. Three-story houses for same periods increased this year from 71 in 1921, costing $949,050 to 301 costing $3,519,905. Another noticeable increase was in garages, the first six months of 1921 showing 727 costing $1,686,455, and 1922, same period, showing 919 costing $1,837,470.

Manufactories show an increase in 1922 over 1921 from 25 costing $832,940, to 61 costing $2,354,310. Schools increased from one costing $370,000 in 1921 first half year to 9 costing $3,665,-150 in 1922. Tenement houses increased from three costing $219,000 in 1921 to 23 costing $1,252,000 in first half of 1922.

In two story dwellings the forty-second and fortieth wards show the greatest number of buildings started and the greatest increase over the first half year of 1921. The forty-second ward started 1,841 dwellings in 1922, and only 185 in first six months of 1921; the fortieth ward 551 in 1922 and in first half year of 1921 96 dwellings were started.

From the following tables we find that the first six months of 1922 have exceeded the total estimated cost for the entire years of every year excepting 1919 and 1920.

Year	Operations	Estimated Cost.
1909	17,294	$42,881,370
1910	16,383	37,866,565
1911	16,215	40,030,985
1912	14,907	37,173,635
1913	14,813	38,763,850
1914	15,709	35,419,605
1915	17,712	39,444,125
1916	15,613	49,896,570
1917	8,977	34,016,408
1918	5,950	15,452,670
1919	14,509	65,088,750
1920	12,512	55,305,400
1921	14,654	42,790,780

If 1922 maintains the percentage of increase for the next six months, the total cost of buildings in Philadelphia in 1922 will far exceed any year in the history of the City.

The building boom is confined not only to Philadelphia, but exists throughout the entire country, due largely to decreased cost of construction and better working conditions among labor. The great increase, however, in demands for all kinds of buildings has tended to increase material prices and has again made labor somewhat independent, but it is hoped that the principles inaugurated at the American Construction Council will be followed by the entire building industry to the end that both employers and employees may better serve each other and continue the present boom for the good of all concerned.

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AMERICAN CONSTRUCTION COUNCIL

(Continued from Last Week)

Mr. Robert D. Kohn, Architect from New York City, in speaking on the necessity of serving the public and industry through local action stated that the greatest cause of labor problems is the uncertainty of the job of the workman. He described local activities to eliminate such uncertainty in Boston, New York and Seattle, and emphasized that local effort was necessary to bring about the best man to man relationships in the building trades.

M. C. Rorty, of the American Telephone and Telegraph Company of New York, spoke on how construction costs can be determined, recorded, and made useful, and stressed the necessity for accurate statistics and publication for figures on all factors entering into such costs.

In urging the necessity of building a standard of responsibility in the industry, John B. Larner, of the Washington Loan and Trust Company, Washington, D. C., stated that with such standards much litigation could be avoided, and the professions and trades could be governed with greater assurance to the public.

D. A. Garber, New York City, a director of the Associated General Contractors of America, stated that a fair deal in the industry was imperative. He decried a "certain kind of broker who adds nothing of a material nature," but who collects a profit for himself. "The parasite who performs no service," he said, "but who exacts compensation is the one responsible for the sharp practices for which the entire industry is blamed."

D. K. Boyd, of Philadelphia, in speaking on the necessity for the elimination of waste, stated that it could be conservatively estimated that the Council, properly functioning through local groups, may be able to save the American people a billion dollars per year through the elimination of preventable waste.

A. E. Coleman, of Chicago, spoke on the necessity for promoting trade harmony and urged the adoption of a universal contract form to be used by all groups as one means of eliminating great cause for disput and litigation.

John M. Gries, Chairman of the Building and Housing Division, of the Department of Commerce, urged the necessity of dependable sources for statistics. These could not be made to order, he stated, but must be from all accurate sources, and disseminated in such manner to be an accurate guide for business. All the groups will assist in collecting this data.

F. M. Feiker, Vice President of the McGraw-Hill Company, New York City, spoke on the vital need for a Code of Ethics in the industry. He stated that business in general is being conducted on a higher plane, than ever before, and that the contruction industry could not go forward except on that high basis of honesty to itself, and to the public for which it existed. An adequate code of ethics would necessitate the machinery for their enforcement.

This would consist, he said, of a Board of Review. The forces which would make an aggressive policy effective would consist of the industrial press, engineering and professional schools, specialized and trade associations, and the government, especially the Department of Commerce.

The Executive Board of the Council elected at this first annual meeting is as follows:

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The first meeting of the Executive Board was held in New York, Friday, June 23, at which time Mr. Roosevelt formally took office.

BUILDING CODE

The tentative draft of the Building Code for Pennsylvania has been completed. The fourth section has been compiled and will be submitted to the General Committee for study. This section contains the engineering requirements and comprises rules on (a) Iron and Steel Construction, (b) Concrete Construction, (c) Hollow Block and Terra Cotta Tile, (d) Walls, Piers, Columns and Foundations, (e) Timber (f) Mill Construction, (g) Ordinary Construction, (h) Frame Construction, (i) Stairways, (j) Fire Escapes, Stand Pipes, Automatic Sprinkers, Roof Tanks and Other Tanks, (k) Smoke Flues, Chimneys, Chimney Stacks, Smoke Pipes, Fire Places and Hearths, (l) Heating and Ventilating, (m) Sanitation and Plumbing, (n) Electric Wiring and Apparatus, (o) Gas Generators and Gas Fittings, (p) Plastering, (q) Billboards, signboards, signs, fences, sidewalks, cornices, bay windows, porches, windows and other projections, (r) Safety requirements, (s) Safety Appliances and Methods, (t) Rat and Fly Proofing.

A meeting of the General Committee will be called with a view to formulating a method of procedure to be followed in the apportionment of the various sections to sub-committees for survey, constructive criticism and recommendation in September 1922.


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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (alts. and add.) and Stores and Apartments, 4924-26 North Fifth street, Philadelphia. Architect, Sol. Kaplan, 929 Chestnut street, Philadelphia. Owner, H. G. Pollack, on premises. Brick, 3 stories, 20x75 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, general alterations. Plans in progress. Architect will take bids in one week.

Residence and Office (alts. and add.), 1724 Spruce street, $6,000. Architect, private plans. Owner, Dr. Leo W. MacKenzie, Professional Building, Philadelphia. Brick, 2 stories, 16 feet 9 inches x 29 feet, slag roof, oak and pine floors. Owner will build.

Residence (alts. and add.), 262 South Twentieth street, Philadelphia. Architect, Frank V. Nickels, 226 South Sydenham street, Philadelphia. Owner, Joseph J. McClade, on premises. Brick, cut stone, 10x15 feet, slag roof, pine floors, electric work, tile and marble work, iron work (heating and papering reserved). Revised plans now ready for bids.

Office and Sales Building, Northwest Corner Thirtieth and Walnut streets. Architects, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, Westinghouse Electric Co., Widener Building, Philadelphia. Brick, steel, limestone and granite, 10 stories, 191x95 feet, slate and tile roof, concrete floors, safety treads, roof ventilators, waterproofing, floor hardener, bond, rolled steel and kalamein doors, rolled steel sash, tile, marble and terrazzo work. Engineers taking revised bids due July 12th at noon.

Office Building, Northeast Corner Twentieth and Chestnut streets, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, Miss Elizabeth Hummel, care of architect. Brick, cut stone, steel and limestone, 8 stories, 153x22 feet, Barrett roof, concrete floors, hollow tile, metal lath, tile and marble work, hollow metal sash and doors, bond, floor hardener, iron stairs, ornamental iron work, waterproofing, terra cotta. Architects taking bids due July 21st at 4 P. M.

Building (alts.), 1623 Spruce street, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick work, carpentry, mill work, hardware, plastering, painting, glazing, mineral flooring, metal lath, iron work, plumbing. rAchitect has received bids.

Sexton's Cottage, York road and Ashbourne road, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, St. Paul's Protestant Episcopal Church, Ogontz, Pa. Stone, 2 stories, 35x55 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work. Architects taking bids due July 14th at 3 P. M.

Apartment House (add.), City Line and Lancaster avenue, Overbrook, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Green Hill Farms, care of M. W. Wood, manager, on premises. Brick, steel and concrete, 4 stories (80 rooms), slate roof, oak floors, steam heat, electric light, tile and marble, metal lath. Preliminary plans in progress.

Shop (alts.), 108 South Eighteenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Miss Frances, on premises. General alteratons. Plans in progress.

Residence, Shawmont avenue, Roxborough, Philadelphia. Architect, Charles W. Maslin, 428 Roxborough avenue, Philadelphia. Owner, Harold Hoffman, care of architect. Hollow tile, cut stone and stucco, 2½ stories, 39x37 feet, wing 9x24 feet, slate roof, pine floors, iron work, bond (plumbing, heating, electric work, oak floors separate bids), tile work. Architect taking bids due July 17th.

General Construction and Improvements to Observation Building, Second and Luzerne streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Philadelphia General Hospital, Department of Public Health, care of Director C. L. Furbush, 584 City Hall. Concrete floors, metal lath, tile and marble, steel partitions, waterproofing, bond, terra cotta (plumbing and electric work separate bids). Owners taking bids due July 21st.

Residence (alts. and add.), Linden avenue and Carlisle street. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, John Shaw, care of architect. Brick, 2 stories, 22x22 feet, enclosing porches, painting, glazing, heating and lighting extensions. Architect taking bids due July 13th.

Store and Apartments (alts.), 716 South Fifty-second street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, H. Feldsher, on premises. Brick work, structural steel, carpentry, mill work, heating repairs, plate glass. Owner taking bids due July 15th.

Store, 1229 Walnut street, Philadelphia. Architects, Magaziner, Eberhard. & Harris, 603 Chestnut street, Philadelphia. Owner, Morris Wenger, 1227 Walnut street. Brick, cut stone and steel, 4 stories, slag roof, oak and pine floors, elevators, terra cotta, iron work, metal bulks, rolled steel sash, tile and marble, metal lath, plumbing. Architects taking bids due July 13th.

Benjamin Franklin Hotel, Ninth, Chestnut and Sansom streets. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Benjamin Franklin Hotel Co., care of architect. Brick and cut stone, 16 stories, 230x196 feet, slag and tile roof, concrete and maple floors, hollow tile, elevators, safety treads, waterproofing, terra cotta, iron work, steam heat, electric light, metal lath, tile and marble, hollow metal sash, kalamein doors, bond (structural steel reserved by owners). Architect taking bids due July 26th.

Factory, 4712-14 Market street, Philadelphia. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owners, Harrison Brush Co., Fourth and Arch streets, Philadelphia. Brick, steel and castone, 3 stories, 30x110 feet, asphalt roof, pine floors, steam heat, iron work, hollow metal sash and skylights (lighting reserved). Architect taking bids due July 15th.

Office Building, Richmond and Berks streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Remington & Sherman Co., 636 Richmond street. Brick, 2 stories, 80x25 feet, slag roof, cement and pine floors, dampproofing, terra cotta, fire doors, hollow metal skylights, tile, metal lath, steam heat, electric light. Architects taking bids due July 18th.

Carroll School, Salmon, Auburn and Edgemont streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Brick, steel, cut stone and granite, 2 stories, 143x76 feet, composition roof, cement, maple and oak floors, metal lath, marble work, metal weather



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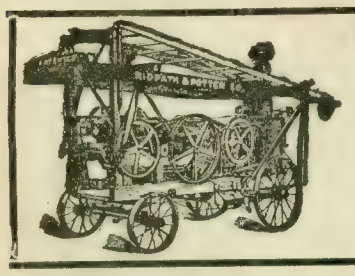
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strip, hollow metal doors, bond, waterproofing, terra cotta, iron work (heating, lighting and plumbing separate bids). Lowest bidders: McCloskey & Co., 1620 Thompson street, $171,900; William R. Dougherty, 1610 Sansom street, Philadelphia: $176,280. Heating, Austin, Gorham & McIlvain, 1816 Ludlow street, $13,950. Electric, Strang Electric Co., 214 South Seventh street, $4,015. Plumbing, Thompson Brothers, 512 Buttonwood street, $9,200. Ventilating, Thompson Brothers, 512 Buttonwood street, $533.

Residence for Internes, Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Bureau of Hospitals, Department of Public Health, C. Lincoln Furbush, Director, 584 City Hall. Lowest bidders: F. L. Hoover & Son, 1023 Cherry street, $293,599; F. M. Harris & Co., 1520 Parrish street, $293,700. Plumbing, N. Connolly, 1404 North Eighteenth street, $19,635. Heating, Charles Monday & Son, 1318 Olive street, $25,965. Electric, Electric Const. Co., Wilmington, Del., $11,765.

Partitions, Post Office, Ninth and Market streets, Philadelphia. Architect, James A. Wetmore, Washington, D. C. Owners, United States Government, care of Custodian, Ninth and Market streets, Philadelphia. Lowest bidders: George H. Evans, Inc., 109 North Thirteenth street, $5,226; E. C. Durell, 1713 North Twenty-fourth street, $5,295.

Stores and Residences (6), 4615-25 North Fifth street, $7,000 each. Owner, Victor Schwartz, 820 South Fifth street, Philadelphia. Brick, 2 stories, 16x23 feet, 11x25 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (2), West side Magnolia street, South of Church Lane, $6,250 each. Architect, private plans. Owner, Charles Johnson, 2032 East Chelten avenue, Philadelphia. Brick, 3 stories, 16x50 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (2), 5717-19 New Queen Lane, $4,250 each. Architect, private plans. Owners, C. M. Swartley and F. & H. Clayton, 6835 Ridge avenue. Brick, 2 stories, 16 feet 4 inches x 45 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (42), Myrtlewood and Tasker and Thirtieth streets, $118,200. Owner, James MacBrine, 1607 Ellsworth street, Philadelphia. Brick, 2 stories, 14 feet 9 inches x 40 feet, 14x29 feet, 11x11 feet, slag roof, electric lighting. Owner will build.

Residences (8) (4) Stanwood street, West of Pine road, and (4) Hemig street, North of Stanwood street, $4,000 each. Owner, W. E. Strock, Oxford Pike, Fox Chase, Philadelphia. Brick, 2 stories, 16x37 feet, 14x7 feet, hot water heating, slag roof, electric lighting. Owner will build.

Residences (23), Twenty-sixth, Ingersoll, Thompson and Seybert streets, $89,500. Owner, George A. Nahm, 2736 Girard avenue, Philadelphia. Brick, 2 stories, 15x42 feet, 15x27½ feet, 12x10 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (46), Moyamensing avenue, Smedley and Rigler streets, $130,300. Architect, private plans. Owner, Charles M. Weild, 2737 South Sixteenth street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 45 feet 9 inches, 16x37 feet, 15x31½ feet, and 14x25 feet, 9x6½ feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

Residence, Southeast Corner Twentieth and Medary avenue, Philadelphia, $7,000. Architect, private plans. Owners, F. Corso and M. Pasquerello, 6141 Ogontz avenue, Philadelphia. Brick, 3 stories, 23x67 feet, irregular, slag roof, hot water heat, electric light. Owners will build.

Residences (5), 2019-27 Estaugh street, $5,000 each, and (6) 2018-28 West Tioga street, Philadelphia, $6,000 each. Owners, T. H. & J. A. Whelan, Southeast Corner Seventeenth and Summer streets. Brick, 2 stories, 16x37 feet, 12x13 feet, slag roof, hot water heat. Owners will build.

Garage, 634-40 North Seventh street, Philadelphia, $15,000. Architect, Herman H. Klein, Penn Square Building, Philadelphia. Owner, John A. Leary, 134 Fifth avenue, Ventnor, N. J. Brick, 1 story, 83x160 feet, slag roof, cement floors, electric work, steel sash. Owner will build.

Residences (2), Tyson street, East of Algord, $5,000 each, and (2) Ditman street, North of Tyson, $4,000 each. Owner, John G. Stevenson, 7014 Hegerman street, Philadelphia. Brick, 2 stories, 18x34 feet, 20x13 feet, and 16x42 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (24), Marvine street, South of Clarkson, $4,000. Owner, S. A. Burkman, 1128 Somerville street. Brick, 2 stories, 16x25 feet, 10x12 feet, slag roof, hot water heat, electric light. Owner will build.

Miscellaneous Work, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, Department of Public Works. Owners will take bids due July 11th at noon on the following:

Grading: Almont street, Tioga to Venango, 1,112 cubic yards earth cut; Florence avenue, Fifty-fourth to Fifty-sixth, 8,816 cubic yards earth cut; Stillman street, Thompson to Master, 3,521 cubic yards earth cut.

Paving with Asphalt: Chester avenue, Sixty-fifth to Sixty-sixth, 1,019 square yards asphalt, 186 cubic yards concrete; Filbert street, Fifty-second to Road End, 657 yards asphalt, 313 cubic yards concrete; Franklin street, Wyoming to Louden street, 847 square yards asphalt, 148 cubic yards concrete; Hutchinson street, Ruscomb to Lindsey, 1,240 square yards asphalt, 242 cubic yards concrete; Madison, Cedar to Aramingo, 252 square yards asphalt, 50 cubic yards concrete; Fifty-fifth street, Viola to Leidy, 561 square yards asphalt, 104 cubic yards concrete.

Paving with Redressed Granite Block: Fifty-eighth street, Woodland to B. & O. R. R., 1,254 square yards block, 227 cubic yards concrete.

Paving with Asphalt: Marshall street, Brown to Poplar, 2,930 square yards asphalt, 594 cubic yards concrete.

Granite Block Paving: Indiana avenue, Broad to Fifteenth street, 1,117 square yards block, 195 cubic yards concrete; Brewster avenue, Eighty-third to Eighty-sixth, 4,125 square yards bituminous surface course, 1,032 lineal feet 24-inch vit. pipe, 210 feet of 18-inch pipe.

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Branch Sewers, Philadelphia. Owners, City of Philadelphia, Department of Public Works, City Hall, Philadelphia. Owners taking bids due July 18th at noon at Room 216, City Hall, for the construction of the following sewers: American street, Luzerne street to Rising Sun avenue; Delphine street, Third to American street; Eastburn avenue, Wester to Gerry street; Fourth street, Chew avenue to Grange avenue; Gerry street, Sixty-sixth avenue, North to Eastburn avenue; Fourth street, Grange to Nedro street; Grange avenue, Fourth to 190 feet east of Third street; McKean street, Swanson street to Delaware avenue; Roosevelt Boulevard, Summerdale avenue to Oxford avenue; Tulip street, Cottman to Friendship street; Twelfth street, Thompson to Columbia avenue.

Main Sewer, Ogontz avenue, Washington Lane to Seventy-ninth avenue, North. Borings, 4,100 feet of test borings in earth. Demolishing bridge, Delaware avenue and Snyder avenue.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alts. and add.), 284 West Rittenhouse street, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, David Rosenbaum, on premises. Brick, 2 stories and basement, 16x16 feet, reinforced concrete, tin roof, pine floors (heating and lighting reserved), flush bulks, plate glass, plumbing. Contract awarded to Percy W. St. John, 5835 Wissahickon avenue.

Gymnasium, Thirty-fourth and Spruce streets, Philadelphia, $10,000. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, University of Pennsylvania, on premises. Brick, 1 story and basement, 64x26 feet, wing 19x20 feet, canvas roof, maple floors, metal lath, fire doors, iron work (heating and lighting reserved). Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Office Building, Eighth and Appletree streets, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, Samuel Lavenson, 237 North Sixth street, Philadelphia. Brick, steel, concrete and granite and limestone, 8 stories, 80x102 feet, slag roof, cement and maple floors, elevators. Contract awarded to Kober Const. Co., 34 South Seventeenth street.

Store (alts.), 5819 Germantown avenue, Philadelphia. Architects, Magaziner & Eberhard, 603 Chestnut street, Philadelphia. Owner, I. Schachtel, on premises. Brick, steel, carpentry, mill work, slag roof, cement and concrete floors, metal ceilings, waterproofing, iron work, metal lath. Contract awarded to A. Kirpichnikoff, Fifth and Tasker streets.

Residence, Springfield avenue and Crefelt street, St. Martin's. Architect, J. Warren Neff, 6045 Trinity Place, Philadelphia. Owner, Francis J. Rue, Wood Norton Apartments, Philadelphia. Hollow tile and plaster, 2½ stories, 41x26 feet and 24x13 feet, slate roof, oak and pine floors, hollow tile, iron work, hot water heat, electric light, tile, marble and iron work. Contract awarded to Gross Hood Co., 1613 Chestnut street, Philadelphia.

Residence, Chestnut Hill, Philadelphia, $32,664. Architect, A. H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, B. Noyes, care of architect. Stone and steel, 2½ stories, 47x27 feet and 47x22 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath, tile, marble and iron work. Contract awarded to J. E. Walt, 204 East Willow Grove avenue.

Residence (alts. and add.), Fifty-second and Wynnefield avenue, Philadelphia, $40,000. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, Harry Publicker, on premises. Plastering, carpentry, mill work, hardware, painting, sheet metal work, roof repairs, electric light, metal lath, iron work, bond, tile work. Contract awarded to John E. Kearney, 34 South Seventeenth street, Philadelphia.

Church (add.), Northeast Corner Seventieth and Buist avenue, Philadelphia, $16,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Southwestern Presbyterian Church, care of Rev. W. P. Fulton, Witherspoon Building, Philadelphia. Stone, second story add., 88x44 feet, slate roof, pine floors, steam heat, electric light, iron work. Contract awarded to George B. Bond, Thirteenth street and Sixty-sixth avenue.

Residence (alts. and add.), Mermaid Lane North of Germantown avenue, $7,500. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, E. A. Sharpless, Forrest avenue, Mt. Airy. Stone, 2½ stories, 20x16 feet, shingle roof, oak and pine floors, metal lath, iron work. Contract awarded to J. Riley & Son, Mt. Airy, Philadelphia.

Miscellaneous Work, Philadelphia, $534,180. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street, Philadelphia. Furnishing and installing electric work and heating on Frankford Elevated Railway and Bustleton Surface Line, 5,169 telephone terminal connections to boxes, passenger sta-

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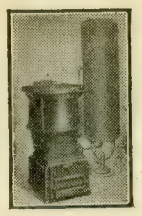
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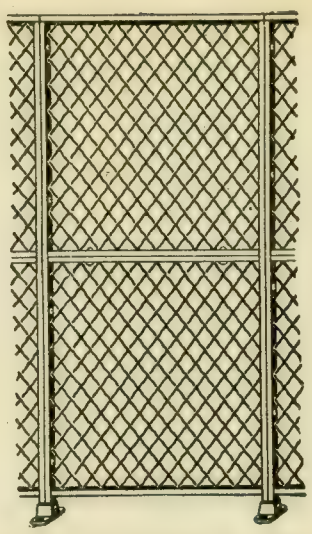
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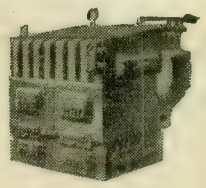
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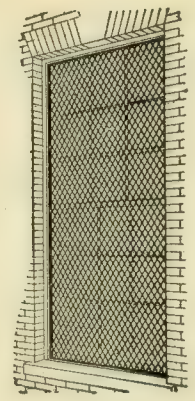
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tion equipment, turn stiles, booths, ticket equipment and fans for each booth, office furniture, drill presses, grinders, etc., structural steel, concrete, brick work, demolition of buildings, grading, heating, plumbing, electric signals and furnishing snow plow. Contract awarded to F. J. Boas, 201 North Broad street.

Dye House, South side Canal street, North of Fountain street, $3,500. Architect, H. M. Hokanson, 1713 Sansom street, Philadelphia. Owner, A. T. Baker Co., on premises. Brick, second story add., 20x52 feet, slag roof, steel sash, plank floors. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Bridge (rebuilding), Railroad Bridge, line of Lincoln Highway, North of Metuchen Junction, N. J. Owners, Philadelphia & Reading Railway Co., Reading Terminal, Philadelphia. Concrete work, paving, reinforcing steel. Contract awarded to Brown Const. Co., 105 Levering street, Roxborough, Philadelphia.

Garage, East side Bryn Mawr avenue, North of Wynnefield, $16,000. Architect, private plans. Owners, Henderson & Beatty, Bala, Pa. Brick, 1 story, 50x166 feet, slag roof, cement floors, steel sash. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Residence (alts. and add.), 4900 North Fifth street, Philadelphia, $5,000. Architect, private plans. Owner, J. A. Ridgway, Sr., 4055 North Twelfth street, Philadelphia. Brick, three story add., 15x4 feet, slag roof, electric work. Contract awarded to Charles H. Shuster, 1950 North Watts street.

Building (add.), 3726 North Broad street, Philadelphia, $7,500. Architect, private plans. Owner, H. Smith, on premises. Brick, 3 and 1 stories, 14½x9 feet, 16 feet 9 inches x 9½ feet, slag roof, electric lighting, hot water heating. Contract awarded to Joseph J. Williams, 2421 West Allegheny avenue.

Building (add. and alts.), 6112 Ridge avenue, $4,000. Architect, private plans. Owner, Harry Cabot, 6112 Ridge avenue, Philadelphia. Brick, 1 story, 6x17 feet 9 inches, metal bulks, oak floors, plate glass. Contract awarded to Brown Const. Co., 105 Levering street.

Residence and Store, 3425 Woodland avenue, Philadelphia, $20,500. Owner, Walter K. Taylor, on premises. Brick, 3 stories, 20x78 feet, slag roof, oak and pine floors, electric lighting, bulk windows. Contract awarded to H. A. Paxson, 6006 Market street, Philadelphia.

Residence, East side Tabor Road, South of Bleigh street, Philadelphia, $7,700. Architect, private plans. Owner, William F. Koenig, 150 North Tenth street, Philadelphia. Frame, 3 and 1 stories, 26x37 feet, 16x9 feet, shisngle roof, hot water heating, electric lighting, oak and pine floors. Contract awarded to H. W. Myers, 5814 Hasbrook avenue, Philadelphia.

Residence, North side Aldine street, East of Whitaker street, $6,600. Architect, private plans. Owner, Henry Doebele, 2919 North Fairhill street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 53 feet, slag roof, hot water heating, electric lighting, oak and pine floors. Contract awarded to H. W. Myers, 5814 Hasbrook avenue, Philadelphia.

Synagogue (alts.), 1924-26 Germantown avenue, Philadelphia, $6,000. Architect, private plans. Owners, Congregation Onshi-Sholem, on premises. General interior alterations. Contract awarded to Nathan Epstein, 2221 North Franklin street.

Garage, rear of 1724 Arch street, Philadelphia. Architect, private plans. Owners, Arch Street Presbyterian Church, on premises. Brick, 1 story, 18x12 feet, slag roof, cement floors. Contract awarded to John N. Gill Const. Co., Otis Building.

Residence, South side Benner street, West of Jackson, $4,000. Architect, private plans. Owner, Elizabeth M. Warren, 3348 Kip street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, electric work. Contract awarded to A. W. J. Williams, 3011 Linden avenue.

Buildings (2) (alts. and add.), 1320 Vine street, Philadelphia, $4,000 each. Architect, private plans. Owner, R. B. Limons, 942 Market street, Philadelphia. Brick, 2 stories, 18x70 feet, slag roof, electric work. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Building (add.), 5030 York Road, Philadelphia, $3,900. Architect, private plans. Owners, Galanos Brothers, on premises. Brick, 1 story, 29x20 feet, slag roof. Contract awarded to Co-operative Builders, 112 North Sixtieth street.

Residence (add.), 1244 North Fifty-second street, Philadelphia, $3,600. Architect, private plans. Owner, Paul Levy, 1244 North Fifty-second street, Philadelphia. Brick, 2 stories, 13x28 feet, slag roof, electric work. Contract awarded to A. P. Lucker, 5136 Parkside avenue, Philadelphia.

Building (add.), 717 South Fifty-second street, Philadelphia, $3,400. Architect, private plans. Owner, Julia Turner, on premises. Brick, 2 stories, 16x30 feet, slag roof, pine floors. Contract awarded to Edw. Holland 5005 Sansom street., Philadelphia.

Rooming House (alts.), 1702 North Eighteenth street, Philadelphia, $3,500. Architect, private plans. Owner, Charles B. Hollis, 1740 North Eighteenth street, Philadelphia. General interior alterations. Contract awarded to Hugh Hazlett & Son, 1701 North Twentieth street.

Garage, 243-45 East Tioga street, Philadelphia, $2,500. Architect, private plans. Owner, S. Blackburn, 106 East Tioga street, Philadelphia. Brick, 1 story, 21x17 feet, 15x49 feet, slag roof, cement floors. Contract awarded to E. B. Miller, 615 Pike street, Philadelphia.

Manufacturing Building, Southeast Corner Amber and Venango streets, $30,000. Architect, private plans. Owners, Gill Glass Co., on premises. Brick, 2 stories, 89x120 feet, 20x17 feet, slag roof, cement floors, steel sash. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Building (alts. and add.), 1649-51 North Twelfth street, $11,000. Architect, private plans. Owner, Edward Beard. 1647 North Twelfth street, Philadelphia. Brick, 2 stories, 30x32 feet, 30x58 feet, slag roof, cement and yellow pine floors, electric work, hot water heat, tile work, plastering. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Residence (alts. and add.), 620 Wynnewood road, $3,000. Architect, private plans. Owner, Kathryn W. Van Sadler, on premises. Brick, 2 stories, 10½x11 feet, slag roof, yellow pine floors. Contract awarded to J. R. Butler, 1502 Mt. Vernon street, Philadelphia.

Theatre Booth, Northwest Corner Twenty-sixth and Girard avenue, Philadelphia, $3,000. Architect, private plans. Owner, J. Fred Zimmerman, Real Estate Trust Building, Philadelphia. Carpentry and mill work. Contract awarded to S. Shelby & Co., 501 Chestnut street.

Residence (alts.), 350 Allen's Lane, Philadelphia, $3,000. Owner, T. W. Vare, 54 Chancellor street, Philadelphia. General interior alterations. Contract awarded to Merion Const. Co., 2313 Walnut street.

Building (add.), 2414 South Seventh street, Philadelphia, $2,500. Architect, private plans. Owner, I. Nishman, 540 Tasker street, Philadelphia. Brick, 2 stories, 10x8½ feet, slag roof, yellow pine floors, electric work. Contract awarded to H. Shore, 2504 South Sheriden street, Philadelphia.

Office Building, West side B street, 160 feet North of Ontario street, $18,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Frederick Eick, B and Tioga streets, Philadelphia. Brick, 2 stories, 80x60 feet, slag roof, maple floors, steam heat, electric lighting. Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

Store, 5607 North Fifth street, $10,000, and **Residences and Stores (2)**, 5609-11 North Fifth street, 6,750. Architect, private$ plans. Owner, Samuel Shapiro, 1910 North Thirty-first street, Philadelphia. Brick, 2 stories, 27x56x19 feet, and 2 stories, 16½x24 feet, 13½x32 feet, slag roof, hot water heat, electric work, tile work. Contract awarded to B. Zorochoff, 3047 Weikel street, Philadelphia.

Residence, West side Limekiln Pike, North of Godfrey, $6,000, and **Store**, Northwest Corner Limekiln and Godfrey, $2,500. Architect, private plans. Owner, M. J. McGlinn, 5227 North Dover street, Philadelphia. Brick, 2 stories, 18x38 feet, store, stone, 18 feet 9 inches x 35 feet, slag roof, electric work, hot water heat. Contract awarded to Joseph J. Funston, 6429 Beechwood street, Philadelphia.

Residences and Stores (3) (alts. and add.), 4620-22-24 Baltimore avenue, $7,000. Architect, private plans. Owner, R. W. Oldhousen, 1421 Chestnut street, Philadelphia. Brick, second story add., 10x10 feet, slag roof, electric work, general alterations. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

Store and Storage (alts.), Southeast Corner Ninth and Spring Garden streets. Architect, private plans. Owners, Feinstein & Co., on premises. General interior alterations. Contract awarded to A. P. Lucker, 5136 Parkside avenue, Philadelphia.

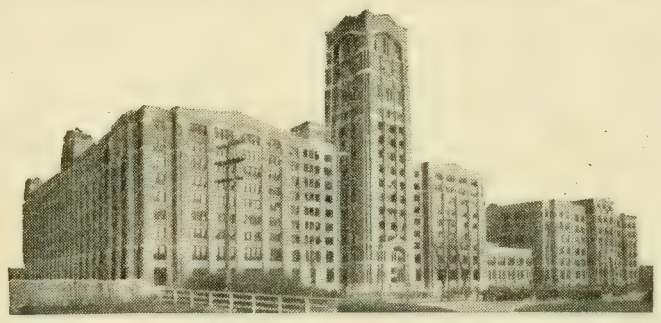
Residence (alts. and add.), 6715 Lansdowne ave., $5,000. Owner, Rt. Rev. D. Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Brick, 1 story, 16x16 feet, slag roof, general alterations. Contract awarded to Joseph Williams, 2421 West Allegheny avenue.

Residence and Store (add.), Southeast Corner Twenty-fourth and Pine streets, $4,000. Architect, private plans. Owner, Joseph A. Burke, on premises. Brick, 2 stories, 15½x15 feet, slag roof, hot water heat, electric light.

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Pennsylvania Construction News

Cottage (add.), Elkins Park, Pa. Architect, William Read, care of owner. Owner, F. Eugene Dixon, Elkins Park, Pa. Brick and stone, 2½ stories, 24x36 feet, shingle roof, pine floors, electric lighting (heating and plumbing reserved.) Owners have received bids.

School (add.), Swarthmore, Pa., $200,000. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Board of Education, Borough of Swarthmore, Pa. Preliminary plans in progress. Too early for details.

School (alts.), Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education, Pottstown, Pa. General alterations. Plans in progress.

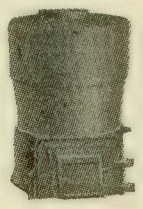
Church, Harrisburg, Pa. Architect, R. R. Markley, 9 North Market Square, Harrisburg, Pa. Owners, Emmanuel Presbyterian Church, Rev. G. W. King, Harrisburg. Stone, 1 story and basement, 90x112 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile work, waterproofing, dampproofing. Plans in progress. (Gymnasium equipment.)

Church (add.), Carlisle, Pa. Architect, R. R. Markley, 9 North Market Square, Philadelphia. Owners, First Presbyterian Church, care of D. N. Wagner, Carlisle, Pa. Stone, 1 story and basement, 40x55 feet, slate roof, hardwood floors, heating extension, electric lighting, metal lath, tile work, waterproofing and dampproofing, ornamental iron work. Plans in progress.

Residence, College street, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Dr. H. H. Mentzer, Carlisle, Pa. Brick, tile, 2½ stories, 36x38 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

Grade School, St. Cloud and Walnut streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Allentown School Board, David Jacks, chairman, Allentown. Brick, fireproof, 2 stories, 38x200 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved), metal lath, tile work, hollow tile, safety treads, roof ventilators, hollow metal skylights, waterproofing and dampproofing, iron stairs, ornamental iron work. Plans in progress.

Factory (alts. and add.), Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, Pennsylvania Soap



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Co., Seymour and Prince streets, Lancaster, Pa. General alterations. Sketches in progress.

Residences (2), Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, M. T. Garvin, 31 East King street, Lancaster, Pa. Brick, 2½ stories, 20x28 feet, slate roof, hardwood floors, hot air heat, electric light. Architect ready for bids.

Bank, Ephrata, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Ephrata National Bank, care of Mr. Harry Hebshman, Ephrata, Pa. Stone, 1 story, 53x90 feet, marble floors, hollow tile, metal lath, steam heat, electric light, tile work, skylights, bank fixtures. Architect ready for bids.

Business Building, Tenth street, Harrisburg, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, Raub Supply Co., Harrisburg, Pa. Brick, steel, fireproof, 3 stories, 112x65 feet, hardwood floors ,electric light, rolled steel sash, (2) freight elevators, roof ventilators. Owner and architect ready for bids.

Residence, Indiana, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 22x40 feet, wing 20x19 feet, slate roof. Preliminary plans in progress.

Residence, McCartney street, Easton, Pa. Architect, J. M. Shnyder, Easton Trust Building, Easton, Pa. Owner, William Gunning, 633 Seitz street, Easton, Pa. Frame, 3 stories, 42x31 feet, vapor heat, electric light, slate roof, hardwood floors, tile work. Owner ready for bids.

School, Lapatcong Township, Warren County, Pa. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owners, Lapatcong School Board, William DeWitt, secretary, Lapatcong. Brick, 2 stories, 45x140 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved). Plans in progress. Architect will be ready for bids in one week.

Factory, Allentown, Pa. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owners, S. Brown Shoe Co., Allentown, Pa. Reinforced concrete and brick, 2 stories and basement, 50x110 feet, slag roof, pine floors, (1) electric elevator, vapor heat, electric light, rolled steel sash, fire doors. Architect ready for sub-bids.

Nurses' Home, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Sacred Heart Hospital, care of Monsignor P. Masson, Allentown, Pa. Brick, 4 stories, 37x105 feet, slag roof, hardwood floors, metal lath, electric work, tile work. Ready for bids.

School, North White Hall Township, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, North White Hall Township School Board, care of architects (Mr. Diesendeifer, secretary). Brick, 2 stories, 8 rooms, slag roof, hot water heat, electric light, tile work. Architects ready for bids.

Junior High School, Ardmore, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, School Board of Lower Merion Township, care of Mr. Hamilton, Merion Title & Trust Co., Ardmore, Pa. Owners taking bids due July 24th. Plans may be secured from architects' offices after July 13th. Deposit required, 10.00. Refund, $5.00.

Residence and Garage, Cynwyd, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, Clarence H. Vanderbeck, Cynwyd, Pa. Stone, 2½ stories, 64x24 feet, and 1½ stories, 21x24 feet, shingle roof, oak, pine and cement floors, iron work, bond, tile work, hot water heat, electric light. Architect staking bids due July 13th.

Residence, Broadhead street, Easton, Pa. Architect, J. M. Shnyder, Easton Trust Building, Easton, Pa. Owner, Newton R. Turner, 1014 Glendon street, Easton, Pa. Frame, 2½ stories, 44x31 feet, asbestos shingle roof, hardwood floors, vapor heat, electric light, tile work. Architect taking bids due July 21st.

High School, Jenkintown, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School District, Ray Ammerman, secretary, Jenkintown, Pa. Brick, stone and steel, 2 stories and basement, 190x90 feet. Owners taking bids due July 15th.

Church, Catasauqua, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, Roman Catholic Church of the Assumption, Catasauqua, Pa. Limestone, cut stone, brick and steel, 1 story, 101x119 feet, slate roof, composition and pine floors, hollow tile, waterproofing, terra cotta, iron work, bond, metal lath, tile and marble work. Architect taking bids due July 15th.

Twin Residence, Bryn Mawr, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, Mrs. W. Gibson, Bryn Mawr, Pa. Brick and stucco, 2½ stories, 32x44 feet, slate roof, pine floors, hot water heat, electric light, tile work. Architect taking bids due July 13th.

Twin Residence, Cynwyd, Pa. Architect, private plans. Owner, Herman T. Wolf, 923 Chestnut street, Philadelphia. Stone, brick, frame and stucco, 2½ stories, 57x35 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath. Owner taking bids due July 13th.

Theatre, 718 North Seventh street, Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, People's Theatre Co., 1767 Broadway, New York. Brick, steel, fireproof, 1 story, 60x120 feet, slag roof, hardwood floors, electric light, tile and marble work, roof ventilators, rolled steel skylights. Architects taking bids due as soon as possible.

Warehouse, Fourth and Melrose streets, Chester, Pa. Architect (engineer), Victor Gondos, Franklin Trust Building, Philadelphia. Owners, Story's Express Co., Seventh and Willow streets, Chester. Brick, concrete and steel, 4 stories, 73x62 feet, slag roof, cement floors, elevators, floor hardener, fire doors, rolled steel sash, hot water heat, electric light. Owners taking bids due July 15th.

Residence (alts. and add.), Radnor, Pa. Architect, Louis H. Rush, 34 South Seventeenth street, Philadelphia. Owner, H. C. Higgins, Radnor, Pa. Stone, stucco and steel, 2½ stories, 41x20 feet, slate roof, oak and pine floors, iron work, electric lighting, tile and marble work. Architect taking bids due July 18th.

Residence No. 43, Wynnewood, Pa. Architect, Frank R. Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stucco, 2½ stories, 50x25 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Architect taking bids due July 13th.

Dairy Building (add.), Reading, Pa. Architect, William H. Timm, Perry Building, Philadelphia. Owner, J. G. Ziegler, Reading, Pa. Brick, 2 stories, irregular in size, slag roof, cement floors, electric light. Architect taking bids due July 17th.

Stores (4), Apartments (8), Eighth and Edgemont streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Lincoln Republic Life Insurance Co., Eighth and Edgemont streets, Chester, Pa. Brick, 3 stories, 42x134 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile and marble, metal lath, flush bulks. Owners taking bids due July 15th.

Store Building, Souderton, Pa. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, B. Silverstein, Souderton, Pa. Brick and stone, 2 stories and basement, 103x25 feet, slag roof, pine floors, metal lath, hollow metal sash, bond, iron work. Architects taking bids due July 14th.

Low Bidders on Road Work. Germantown Pike, Montgomery County, Pa.; William C. Evans, Ambler, Pa.; surfacing, $1.05 per square yard; stone, $4.50 per ton. High street, ottstown, Pa., E. A. Corson, Ocean City, N. J.; surfacing, $1.46 per square yard; stone, $3.50 per ton. Hatfield Pike, W. R. Wolfinger, Norristown, Pa.; base stone, $4.15 per tons; surface stone, $4.75 per ton.

Pennsylvania Contracts Awarded

School (alts. and add.), Bryn Mawr, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, School Board of Lower Merion Township, Bryn Mawr, Pa. Brick, cut stone and steel, 2 stories, 162x107 feet, built-up roof, pine, oak and composition floors, metal lath, marble, copper sash, bond, iron work. Contracts awarded to J. S. Rogers Co., Drexel Building, Philadelphia, $168,600. Heating, Walters, Purks & Mellon, 4419 Ludlow street, Philadelphia, $22,922. Ventilating, S. P. Call, 610 Callowhill street, Philadelphia, $8,035. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, Philadelphia, $5,100. Electric, Baird-Osterhout Co., 2109 Walnut street, Philadelphia, $1,716.

Office Building, Swedeland, Pa. Architect, Ernest Green, 145 East Forty-fifth street, New York City. Owners, Rainey Wood Coke Co., Swedeland, Pa. Brick and cut stone, 3 stories, 64x36 feet, composition roof, cement floors, safety treads, metal ceilings, waterproofing and dampproofing, iron work, bond, rolled steel sash, terrazzo, electric light, metal lath. Contract awarded to Barto Phillips Co., 280 Madison avenue, New York City.

High School (alts. and add.), Conshohocken, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School District of the Borough of Conshohocken, Pa. Brick, cut stone and steel, 2 stories, balcony and basement, 53x120 feet, Carey built-up roof, cement and maple floors, metal lath, hollow metal skylights, iron stairs,

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iron work (heating, plumbing, lighting and ventilating reserved). Contract awarded to W. R. Beard, Coatesville, Pa.

High School, Downingtown, Pa. Architect, John H. Mowere, Phoenixville, Pa. Owners, Board of Education, Ernest Smedley, secretary, Downingtown National Bank, Downingtown, Pa. Stone, 2 stories and basement, 135x72 feet, slate roof, pine floors, metal ceilings, iron work, bond, metal lath (heating, lighting and plumbing separate bids). Contract awarded to Palmer C. Hughes, Downingtown, Pa.

Residence, Penfield, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, J. G. McCue, care of architect. Frame and clapboard, 2½ stories, 25x36 feet and 23x14 feet, shingle roof, hardwood and composition floors, cement work, hot water heat, electric light, tile work. Contract awarded to Clarence L. Terry, Highland Park, Pa.

Sunday School, Jenkintown, Pa., $25,415. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Jenkintown Baptist Church, Jenkintown, Pa. Stone and stucco, 1½ stories, 57x26 feet, slate roof, pine floors, vapor heat, electric light, pine floors, tile work, bond. Contract awarded to Roy Randall, Horsham, Pa.

Bank (add.), Greenville, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Perkiomen National Bank, care of M. F. Fluck, Greenville. Brick, 2 stories and basement, 15x29 feet, hardwood floors, tile and marble work, electric light. Contract awarded to Ochs Const. Co., 440 Wire street, Allentown.

Church (add.), Whitehall Township, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Mickley's Church, care of architects. Brick, 2 stories and basement, 18x52 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded to Peters & Marshall, Allentown, Pa.

Masonic Hall, Danville, Pa. Architect, William H. Leo, 32 South Seventeenth street, Philadelphia. Owners, Masonic Hall Association, Danville, Pa. Brick, cut stone and steel, 1 story, basement, balcony, 97x54 feet, asbestos asphalt roof, composition floors, roof ventilators, waterproofing, iron work, bond, kalamein doors, rolled steel sash, metal lath, steam heating, electric lighting. Contract awarded to T. L. Evans' Sons, Danville, Pa.

School (add.), Akron, Lancaster County, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Akron Borough School Board, C. B. Zwally, Akron, Pa. Brick, 2 stories, slag roof, yellow pine floors, electric light. Contract awarded to A. L. Gerhart, Ephrata, Pa.

Normal School (alts.), Millersville, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Millersville State Normal School, care of architect. Mill work, kitchen equipment, concrete floors, general alterations, freight elevators. Contract awarded to E. K. Kreider, New Danville, Pa.

Dye House, Clifton Heights, Pa. Architect, H. M. Hokanson, 1713 Sansom street, Philadelphia. Owners, Caledonia Woolen Mills, Clifton Heights, Pa. Brick, 1 story, 52x65 feet, slag roof, cement floors, rolled steel sash. Contract awarded to Barclay White Co., 1713 Sansom street.

Church (alts. and add.), Elkins Park, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, St. Paul's Episcopal Church, Elkins Park, Pa. Carpentry, mill work, stone work, hot water heat, electric light, metal lath, tile work, painting, glazing, plumbing. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Residences (12), Somerton, Pa. Architect, private plans. Owners, Four-Kay Lumber Co., Real Estate Trust Building, Philadelphia. Hollow tile and stucco, 2 stories and basement, 21x30 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to Nicholas Nardi, 1726 Sansom street, Philadelphia.

Apartment and Store (alts. and add.), 2103 Sixth street, Harrisburg. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Camp Curtain Trust Co., Sixth and Maclay streets, Harrisburg. Brick, 3 stories, composition roof, hardwood floors, electric light, tile work, general interior alterations. Contract awarded to C. W. Frain, 224 North Sixth street, Harrisburg, Pa.

Double Residence, Grant street, Easton, Pa. Architect, private plans. Owner, Kenneth Fay, Palmer and Knickerbocker streets, Easton. Brick, 2½ stories, 28x42 feet, slate roof, hardwood floors, hot air heat, electric light, tile work. Contract awarded to William Fehr, 746 Milton avenue, Easton, Pa.

High School, Millersville, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, F. F. Brenner, Highville, Lancaster, Pa. Brick, 2 stories and basement, slag roof, hardwood floors, electric light (heating, plumbing and electric work reserved). Contract awarded to Butz & Clader, Allentown, Pa.

Residence and Garage, Easton, Pa. Architect, J. M. Shnyder, Easton Trust Building, Easton, Pa. Owner, Dr. R. Miller, 61 North Third street, Easton, Pa. Brick, frame, 2½ stories, 26x38 feet, and 1 story, 19x21 feet, vapor heat, electric light, asbestos shingle roof, hardwood floors. Contract awarded to A. L. Raub, 640 Lafayette street, Easton, Pa.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. The following contracts have been awarded:

Cumberland and York Bridge Counties, R-123, Upper Allen and Carroll Townships, G. A. & F. M. Wagman, Dallastown, Pa., $18,378.01.

Armstrong County, R-251, Parker City Borough, Jones Const. Co., Salem, Ohio, $65,398.50.

Cambria County, R-62, Cambria Township, Lord Const. Co., Hastings, Pa., $74,818.50.

Indiana County, R-262, Greene, Grant and Montgomery Townships, $205,237.56. Booth & Flinn, Ltd., Pittsburgh, Pa.

Jefferson County, Route 338, Sykesville Borough and Winslow Township, Mason & Hanger Co., Dubois, Pa., $164,622.91.

Bradford County, Route 20, South Creek Township, Henry W. Horst Co., Rock Island, Ill., $197,759.06.

Cambria County, R-54, Blacklick Township, $162,042.03. Booth & Flinn, Ltd., Pittsburgh, Pa.

Clearfield County, Route 234, Irvona Borough, Gifford & Pritchard, Philipsburg, Pa., $54,907.78.

Indiana County, Route 228, Jacksonville Borough, White Center and Blacklick Town-



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ships, Torquato Brothers Co., Windber, Pa., $296,376.25.

Indiana County, Route 228, Young Township, Torquato Brothers Co., Windber, Pa., $233,021.10.

Lawrence County, Route 79, Shenango and Slippery Rock Townships, Woods & Golder, New Castle, Pa., $207,625.50.

Bradford County, Route 20, Troy and Columbia Townships, The Juniata Co., Empire Building, Philadelphia, $89,949.90.

Cambria County, R-221, Elder and East Carroll Townships, Lord Const. Co., Hastings, Pa., $224,600.10.

Reception Building, Rittersville, Pa. Architect, private plans. Owners, Homeopathic State Hospital, Dr. Henry I. Klopp, superintendent, Rittersville, Pa. Contract awarded to Howard E. Stoudt & Son, Bethlehem, Pa.

Residence, Wynnewood, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, C. H. Roberts, Otis Building, Philadelphia. Stone, 2½ stories, 87x25 feet, shingle roof, oak and pine floors, vapor heat, electric light, tile work. Contract awarded to Herbert G. Campion, Otis Building, Philadelphia.

New Jersey Construction News

Factory, Gloucester, N. J. Engineer, A. W. Akimoff, Harrison Building, Philadelphia. Owner, A. W. Grant, Harrison Building. Brick, stone and steel, 1 and 2 stories, 100x500 feet. Preliminary plans in progress. Too early for details.

Office, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Standard Furniture Co., care of architect. Fireproof, 2 stories and basement, 60x100 feet, slag roof, hardwood floors, electric light, metal lath, rolled steel sash. Plans in progress.

Hotel (alts.), near Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owners, West End Hotel, care of architect. General interior and exterior alterations. Plans in progress.

Store and Apartments, 219-21 Broadway, Camden, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Baker Schoenogle Co., care of architects. Brick and cut stone, 2 stories and basement, 40x70 feet, slag roof, pine floors, hot water heat, electric light, hollow metal skylights, bond, iron work. Architects taking bids due July 17th.

Residences (2), Commonwealth avenue, Trenton, N. J., $7,400. Architect, private plans. Owner, Frank L. Asay, 354 Commonwealth avenue, Trenton, N. J. Frame, 2½ stories, 28x40 feet, slate roof, pine floors, electric lighting. Owner will build.

New Jersey Contracts Awarded

High School, Bridgeton, N. J. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education, Bridgeton, N. J. Brick, cut stone and steel, 2 stories, 194x61 feet, composition roof, cement and maple floors, hollow tile, roof ventilators, electric light, metal lath, hollow metal sash and doors, bond, iron work. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Sales and Service Building, Haddon avenue and Sycamore street, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, N. B. T. Roney, Camden, N. J. Brick, 2 stories, 52x100 feet, slag roof, cement, pine and compositioin floors, elevators, roof ventilators, metal ceilings, rolled steel sash, hollow metal skylights, metal lath, electric lighting (heating, plumbing and bond reserved). Contract awarded to Emil Schulke, 1183 Jackson street, Camden, N. J.

Factory, Edgewood avenue, Trenton, N. J., $4,150. Architect, private plans. Owners, Spellman Hardware Mfg. Co., Trenton, N. J. Brick, 1 story, 32x60 feet, slag roof, electric lighting. Contract awarded to S. W. Mather & Son, Greenwood and Canal, Trenton, N. J.

Miscellaneous Construction News

Residence, Belmont and Massachusetts avenues, Washington, D. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, name withheld. Brick, cut stone and steel, 3 stories, 46x35 feet, wing 20x20 feet, garage, 1½ stories, 20x25 feet, composition roof, vapor heat, electric light, terra cotta, garden walls (oak floors reserved). Architect taking bids due July 15th.

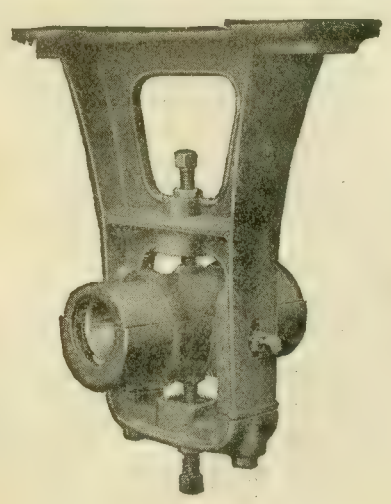
Proposals

INVITATION FOR PROPOSALS

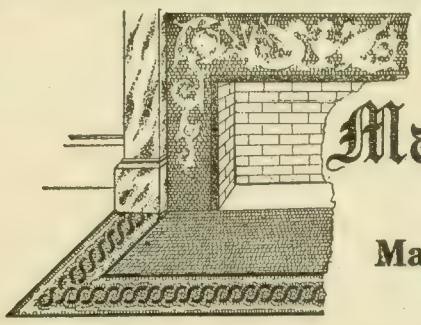
TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 5, 1922. Sealed Proposals will be opened in this office at 3 P. M., July 31, 1922, for the construction (exclusive of mechanical equipment) of an additional wing to the Main Hospital Building of the United States Public Health Service Hospital at Tanner's Creek, Norfolk, Va., in accordance with drawings and specifications, which may be obtained from Neal A. Melick, Superintendent of Constructioin, at the Site of the Hospital, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid, shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 10, 1922.—SEALED PROPOSALS will be opened in this office at 3 P. M., July 31, 1922, for the Mechanical Equipment of the East Wing of the U. S. Veterans' Hospital, Norfolk, Va., (Tanner's Creek Site), in accordance with specification and drawings, copies of which may be had at this office or at the office of the Superintendent of Construction, at the building, in the discretion of tne Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

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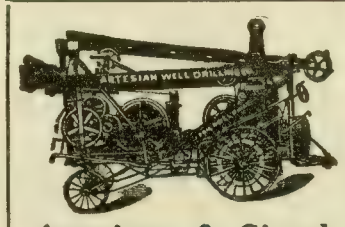
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Wards.	3	4	11	16	18	21	22	23	24	25	26	27	29	32	33	34	35	36	38	39	40	41	42	43	44	45	46	48	Totals
January	..	..	1	..	..	1	52	4	..	..	..	..	21	..	..	2	9	..	..	..	..	3	173	..	..	14	10	86	376
February	..	..	..	..	..	..	115	25	..	..	65	..	..	..	7	66	..	..	36	..	6	5	176	..	..	..	14	..	515
March	..	..	..	..	1	19	59	77	..	..	1	..	..	2	15	111	24	..	25	..	208	52	615	30	..	8	10	1	1258
April	..	1	..	..	..	8	102	18	..	2	..	..	..	..	1	92	23	..	23	2	64	44	266	..	2	3	..	..	651
May	..	..	..	..	..	28	102	9	47	..	1	1	22	1	23	48	34	..	..	..	181	45	275	..	..	..	..	48	865
June	1	1	..	2	..	15	109	19	..	..	39	1	..	..	113	150	25	5	12	..	92	54	336	..	..	1	11	93	1079
Totals	1	2	1	2	1	71	539	152	47	2	106	2	43	3	159	469	115	5	96	2	551	203	1841	30	2	26	45	228	4744

THREE-STORY DWELLINGS

Wards.	3	4	5	12	13	15	16	20	21	22	23	34	35	38	39	40	41	42	46	47	48	Totals
January	..	..	..	1	..	..	..	..	1	12	..	2	..	..	..	..	..	..	..	2	..	18
February	1	..	..	..	..	..	..	..	..	6	3	..	..	..	1	8	..	1	..	..	..	20
March	..	1	..	..	..	1	..	..	1	52	8	7	1	..	..	..	1	5	6	..	..	83
April	..	2	..	..	..	1	1	1	5	20	..	23	2	2	..	1	..	6	1	..	1	66
May	..	..	1	..	..	..	..	..	3	17	10	7	2	2	..	..	6	14	..	..	..	62
June	..	..	..	..	1	1	..	..	..	18	..	26	..	1	..	1	..	4	..	..	..	52
Totals	1	3	1	1	1	3	1	1	10	125	21	65	5	5	1	10	7	30	7	2	1	301

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Philadelphia Official Figures Showing in Detail the Constructive Activity of the First Six Months of 1922

Number of New Buildings Erected from January 1st to June 30th, 1922.

1922.	Jan.	Feb.	March.	April.	May.	June.	Operations.	Estim'd Cost.
Places of Amusement	..	..	..	..	..	1	1	$40,000
Bath Houses	..	1	..	..	..	1	2	81,000
Convents	..	..	..	..	..	1	1	90,000
Churches	1	2	1	2	3	3	12	491,700
Dwellings, one-story	..	..	1	2	2	1	6	24,100
two-story	376	515	1258	651	865	1079	4744	21,256,015
three-story	18	20	83	66	62	52	301	3,519,905
frame	9	2	14	18	17	12	72	349,875
Banks	..	..	..	..	1	1	2	155,000
Clubs	..	..	..	..	1	..	1	90,000
Charitable Institutions	..	..	1	1	1	1	4	353,800
Engine and Boiler Houses	..	1	2	..	1	2	6	139,600
Garages	42	80	202	187	199	209	919	1,837,470
Gymnasiums	..	..	..	..	..	1	1	585,000
Halls	..	1	1	1	..	1	4	104,000
Hotels	..	..	..	1	..	..	1	1,600,000
Hospitals	..	..	..	1	..	..	1	49,000
Manufactories	5	4	18	13	10	11	61	2,354,310
Municipal Buildings	..	..	..	1	2	1	4	170,000
Miscellaneous Buildings	7	14	19	18	24	25	107	200,420
Office Buildings	2	2	6	5	2	7	24	3,538,490
Power Houses	..	1	..	..	1	2	4	127,000
Rooming Houses	..	..	..	1	..	1	2	55,000
Schools	..	1	3	3	..	2	9	3,665,150
Stables	..	..	4	..	3	2	9	44,325
Stores	8	9	7	23	11	12	70	436,280
Tenement Houses	5	3	2	7	2	4	23	1,252,000
Apartment Houses	..	..	..	1	..	..	1	1,000,000
Warehouses	1	2	6	4	10	8	31	971,800
Workshops	4	13	15	17	10	16	75	204,590
Total New Buildings	478	671	1643	1023	1227	1456	6498	$44,785,830
Additions	107	149	297	309	321	327	1510	4,709,040
Alterations and Repairs	250	281	434	447	469	477	2358	2,538,725
Grand Total							10,366	$52,033,595
Fire Escapes							55	31,995
Heaters							52	34,965
Signs							262	88,110
Miscellaneous Work							878	240,480
							11,613	$52,429,145

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Weil, J. H., Co. .....1304 Arch St., Phila.

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Emack, The John D. Co. Otis Bldg., Phila.

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Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

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Ketcham, O. W. .....121 N. 18th St., Phila.

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Mitchell Bros. .....2125 Race St., Phila.

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DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
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Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Mont Clare Foundry Co., N. E. Cor 11th and Ridge Ave., Phila.
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Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

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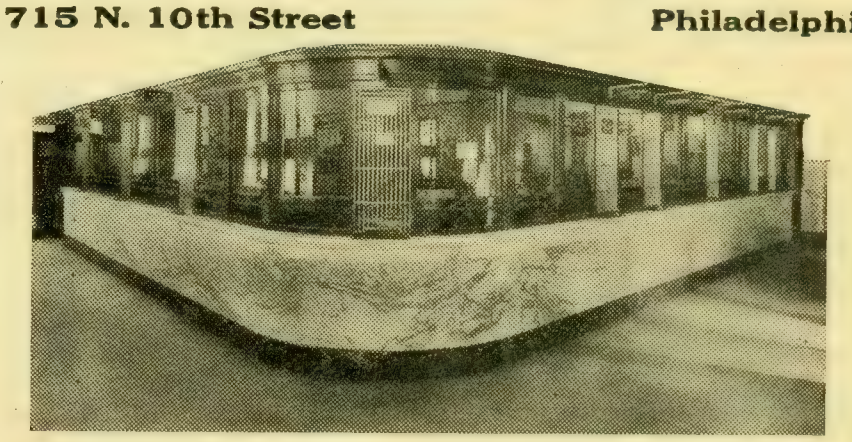
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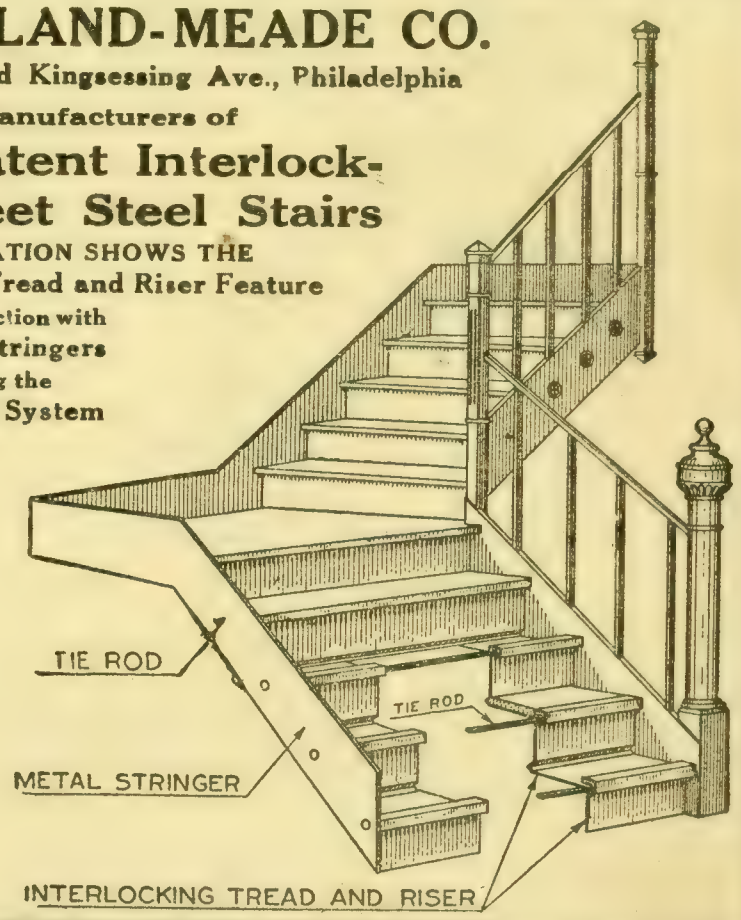
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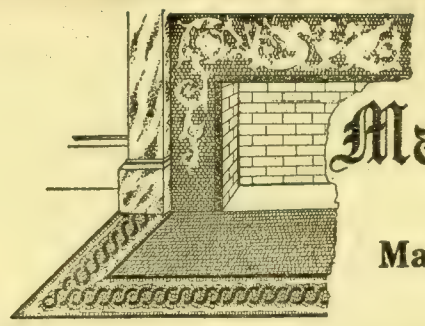


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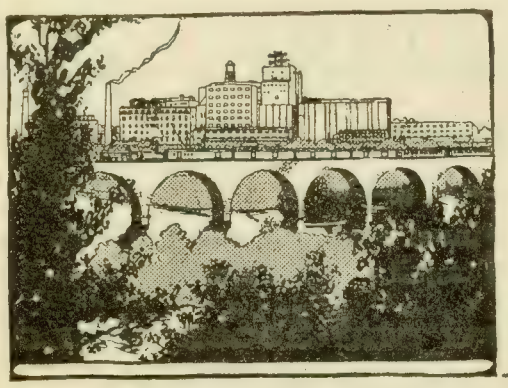
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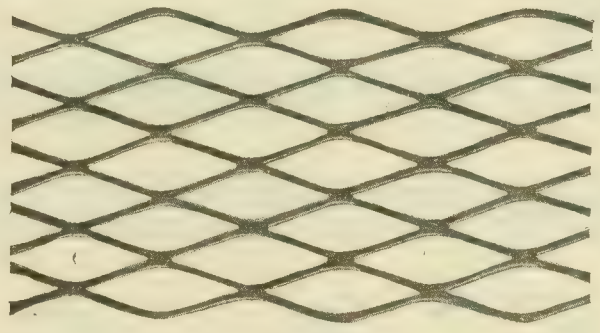
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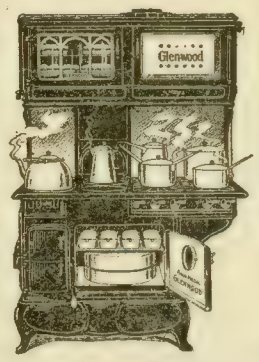
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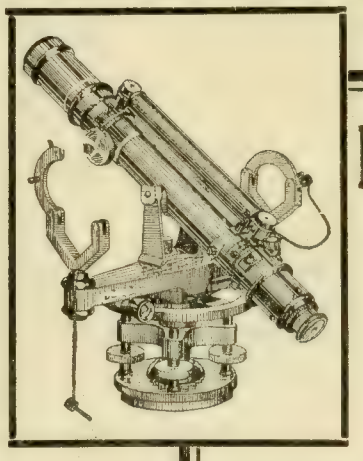


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 29

PHILADELPHIA
July 19, 1922

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As The Editor Sees It

Despite the increased building activity in the United States during the last six months, the housing shortage for the country as a whole was recently estimated as somewhat more than two and a half years' production by John Ihlder, manager of the Civic Development Department of the Chamber of Commerce of the United States before the National Conference on Social Work. According to Mr. Ihlder, the situation is not the same in all American cities. In some cities the shortage is estimated as nearly four years, he said, while in others, it is approximately one and a half years, or even less.

"This means," he explained, "that many thousands of American families are still living in cramped quarters, well-to-do families as well as poor. More significant, it means that a considerable proportion of these families are becoming accustomed to this cramped living, accepting it as normal. I have heard of an Admiral of our Navy who, with his wife and two sisters, occupies three rooms in an expensive apartment house and has his meals prepared on an ingenious little electric stove in the hall, of a comparatively well-to-do woman who occupies one room and bath and has her laundry washed in the bath room. When one goes from such people to the poor, he finds the old overcrowding accentuated and insanitary conditions worse than they were before the war."

Mr. Ihlder pointed out "that while we cannot expect house building to continue long at its present speed, we may hope that it will continue to exceed current increase of need and so gradually reduce the shortage. Co-incidentally we may expect that building prices will come down, not steadily—just at present they are rising from the lower level of the winter—but with occasional flats and accents. This means that we may hope for dwellings produced and sold at smaller cost and so put within the means of a constantly larger proportion of the people until the day comes when the old procession is once more started from poorer houses to better houses and so make available to families of small means the old but adequate houses that are still habitable. At present there is an hiatus between the expensive houses under construction and the dwellings of the unskilled wage-earner. At present and for some years in the future, so far as we can forsee, there will be little or no building of new dwellings, at least in the east for unskilled wage-earners.

"Desire for such dwellings is likely to expose us to an insidious danger; the attempt to cheapen construction by diminishing the space put at a family's disposal or by encouraging shoddy construction. The short cut of shoddy construction which has been, and still is to a lesser degree, one of our greatest menaces, promises to offer earlier relief, but at a cost which our children and grandchildren will not pay. The short cut of diminished space has amply proved its fallacy in tenements of New York. Its ultimate results will be higher rents for a population so crowded together that it can not live, but will merely exist.

"From the housing point of view, the most encouraging development of the past two or three years is the extension of zoning regulations in the United States. Begun just before the war, zoning gripped our imagination and as soon as peace returned American cities began to apply it. Today some sixty cities have or are drafting zoning regulations. Because of these zoning regulations they are keeping in their residence districts the open spaces which are the fundamentals of good housing."

EFFECT OF THE AMERICAN PLAN

BY WARREN H. MC BRYDE

President, Industrial Association of San Francisco

Any suggestion that the American Plan in any manner has injured the worker or prejudiced his legitimate interest, is disproved irrefragably by figures and data recently compiled. These figures and data, secured from reliable sources and put to the most rigid test of authentication, show that the building trades mechanic of San Francisco is at least

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ten per cent. better off today than at any previous time since as far back as 1913. Not that wages are higher now than ever before, but that the margin between wages and the cost of living is less, and that steady work is far more plentiful, than at any time during the past nine years.

During the period from 1913 to an including 1920, throughout all of which time the unions exercised the most complete control over wages and working conditions, the mean margin between the average wage of the building trades mechanic and the average cost of living was approximately twenty-five per cent. Furthermore, during this time, and because of frequent strikes and the resultant lack of confidence of the public, there was far less steady work available for the building trades mechanic than there is at the present time.

It is interesting, also, to observe that these same figures and data show a ten to fifteen per cent. increase (over 1918, 1919 and 1920) in the efficiency and skill of the average building trades craftsman. This gratifying increase is, of course, simply the result of the abrogation of all those rules and regulations, designed to limit output by curtailing efficiency, which prevailed prior to the effectuation of the American Plan.

Thus it becomes conclusively evident that the public, the workers and the employers, all have been benefited materially and lastingly by the establishment in San Francisco of the American Plan.

As a result of laboratory tests made in the College of Industries of Carnegie Institute of Technology, Pittsburgh, it has finally been established that bituminous clay pipe for drainage and sewerage use in every way the equal of the more expensive cast iron pipe which has been employed heretofore.

For years efforts have been made by manufacturers and engineers to find methods of efficient substitution of bituminous clay pipe for cast iron pipe, but without success. One weak point has invariably remained an inability to join the lengths to prevent leakage. Practically speaking there has been but one general type of jointing material used, some variation of the ordinary building cement.

Recently various bituminous compounds have been evolved as a substitute jointing material. But the first—and numerous—tests made of these, too, failed to overcome the great weakness of clay pipe when used for drainage or sewerage.

Finally a number of these bituminous compounds were placed at the disposal of S. E. Dibble, Head of the Heating and Ventilating Department of the College of Industries of Carnegie Institute of Technology. He proceeded to make painstaking and unusual tests and experiments. He not only devised absolutely new equipment with which to simulate actual drainage and sewerage conditions in the making of his tests, but as a result of the tests themselves he developed an entirely new jointing practice and technique. Altogether twenty-one separate tests on a total of sixty-three joints were made, three different bituminous compounds being used.

Not only have Professor Dibble's tests established (1), that a proper bituminous compound can be used efficiently in jointing a pipe; (2), that joints made in the manner developed by Professor Dibble will stand any pressure that the pipe itself is capable of standing, without showing any leak; (3), that a pipe line so jointed can be thrown out of alignment without causing a leakage at the joints; and (4), that leaks due to poor workmanship can be repaired easily and quickly; but Professor Dibble has gone further and has published actual chemical analyses of two of the bituminous compounds found satisfactory.

Industry in a score of its important fields will immediately profit by this practical type of educational institution work.

JUMBLED CITIES

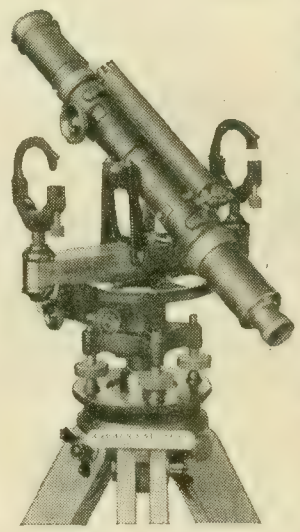
Avoidance and correction of the present topsy-turvy arrangement of so many American cities, the cause of millions of dollars' loss, is the object of "A Zoning Primer" issued by the Division of Building and Housing of the Department of Commerce, according to an official announcement.

The enormous waste in American cities from scrapping good buildings on accounting of the blighting of districts has long been apparent, and for years has levied its tax on the American people.

Random crowding of stores among private dwellings, the elbowing of factories and noisy smelly garages into the rightful domains of neat retail stores or well-kept apartment houses, and the construction of tall, bulky office buildings so closely crowded that the lower floors are too dark for human use and consequently seldom occupied, is part of the present stupid, wasteful jumble which proper zoning will prevent and gradually correct, in the opinion of the Advisory Committee on Zoning of the Department of Commerce.

The pamphlet describes the object of zoning, the need, the health and property protection afforded, and its effect on the cost of living. Legal problems, with an outline of what some cities have accomplished, and a zoning program are also included among other subjects. Copies are sold by the Superintendent of Documents, Government Printing Office, Washington, D. C., at five cents each.

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Store and Residence, $4,900, **and (7) Residences**, $4,300, Grange street, West of Fourth street. Architect, private plans. Owners, P. & G. J. Herrmann, 430 Duncannon street. Brick, 2 stories, (1) 15x41 feet, (7) 14x29 feeet, 11x12 feet, slag roof, oak and pine floors, hot water heat, electric lighting. Owners will build.

Building (add.), Northwest Corner Swanson and Snyder avenue, $4,000. Architect, private plans. Owners, Publicker Commercial Alcohol Co., on premises. Brick, 1 story, 24x23 feet, slag roof, cement floors, electric lighting. Imperial Architects, 1716 Spring Garden street, will build.

Store and Apartments (alts. and add.), 2263 North Howard street. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, John Isler, 2265 North Howard street, Philadelphia. Brick, 3 stories, 64x16 feet, built-up asphalt roof, oak and pine floors, hot water heat, electric light, marble work, hollow metal skylights, metal bulks, waterproofing. Architect taking bids due July 18th.

Residences (16), Rosehill street, below Ruscomb street, Philadelphia. Architect, private plans. Owner, Herman B. Britsch, 5521 North Seventh street, Philadelphia. Brick, 2 stories, 16½x32 feet, slag roof, oak and pine floors, hot water heating, electric lighting. Owner will build and is taking sub-bids.

Residences (121), Wyoming avenue, Roosevelt Boulevard, Third, Fourth and Fifth streets, Philadelphia. Architect, private plans. Owner, Charles G. Erny, 4665 Paul street, Frankford, Philadelphia. Brick, two stories, various sizes, slag roof, hot water heating, electric lighting, hardwood and pine floors. Preliminary plans in progress. Owner will be ready fo rsub-bids in two months.

Residences (50), Panama street, Nineteenth to Twentieth streets, $300,000. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, care of architect. General remodeling of two blocks of residences. Plans being completed. Architect will be ready for bids in one week.

Store Building (alts. and add.), 1206 Chestnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Max Dann, 1312 Chestnut street, Philadelphia. Plans about completed. Architect will take bids in a few days.

Stores, Apartments and Shop, Chadwick street and Passyunk avenue. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, Otto Zachar, 1630 West Passyunk avenue, Philadelphia. Brick, 2 and 3 stories, slag roof, hardwood and pine floors. Revised plans in progress.

Office Building, Northeast Corner Sixteenth and Walnut streets, Philadelphia, $350,000. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, Samuel M. Clement, Jr., West End Trust Building, Philadelphia. Brick, concrete, steel, terra cotta and limestone, 18 stories. Plans completed. Architect will be ready for bids in a week.

School, Palmetto and Bleigh streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Brick, stone and steel. Plans in progress. Will be ready for bids in one week.

Office Building, location withheld. Architect, David B. Bassett, 1420 Locust street, Philadelphia. Owner, name withheld. Brick, steel and concrete, 12 stories. Preliminary plans in progress. Too early for details.

Home for Elks, Southwest Corner Broad and Wood streets, Philadelphia. Architect selected, Andrew J. Sauer, Denckla Building, Philadelphia. Owners, B. P. O. Elks, Lodge No. 2, Philadelphia. Preliminary plans in progress. Too early for details.

Residence, Oak Lane Park, Philadelphia. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owner, Robert H. Breeding, 510 Sixty-seventh avenue, Oak Lane, Philadelphia. Stone, 2½ stories, 30x50 feet, slate roof, hardwood floors, hot air heating, electric lighting, tile work, plastering. Owner is taking sub-bids.

Residence, Oak Lane Park, Philadelphia. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 27x40 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress. Architect will take bids in ten days.

Church (alts. and add. and renovation), Seventeenth and Spruce streets, Philadelphia. Architect, H. Louis Duhring, 1309 Locust street, Philadelphia. Owners, Tenth Presbyterian Church, on premises. Plans in progress. Architect will take bids in one week.

Residences (23), Fifty-seventh and Florence avenue, Philadelphia. Architect, Salvator J. Gritti, 817 North Sixteenth street, Philadelphia. Owner, B. Herman, 522 South Sixtieth street, Philadelphia. Brick, 2 stories, 45x16 feet, slag roof, oak and pine floors, hot water heat, electric lighting, tile work. Owner is taking sub-bids.

Residences (2), Disston and Cottage streets, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, James W. Orr, Bustleton Pike and Knorr street, Philadelphia. Brick, 2½ stories, 16x40 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Owner is taking sub-bids.

Store (alts. and add.), 1206-08 Point Breeze avenue, Philadelphia. Architect, Robert W. Pollock, 1802 Chestnut street, Philadelphia. Owner, J. Weiss, on premises. Brick, 2 stories, 9x12 feet, slag roof, pine floors, tile work, carpentry, mill work, plastering, plate glass, metal bulks (heating and lighting reserved). Owner will build and is taking sub-bids.

Building, Southeast Corner Thirteenth and Spruce streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, United Lutheran Publication House, Ninth and Sansom streets. Brick, concrete and steel, 8 stories and basement, 74x117 feet, slag roof, concrete and linoleum floors, hollow tile, elevators, metal window guards, dampproofing, terra cotta, iron work, bond, elevator, kalamein and hollow metal doors, rolled steel skylights and sash, tile, marble and terrazzo, metal lath, electric light, vacuum heating. Architects taking bids due July 21st.

Residence, Locust and Van Pelt streets, Philadelphia. Architect, Samuel D. Hawley, 32 South Seventeenth street, Philadelphia. Owner, Harrison K. Caner, Fourth and Arch streets, Philadelphia. Brick, 3 stories, 25x60 feet, wing 26x23 feet, slag roof, oak and pine floors, hot water heat, electric lighting, metal lath, tile and marble work, iron work. Architect taking bids due July 21st.

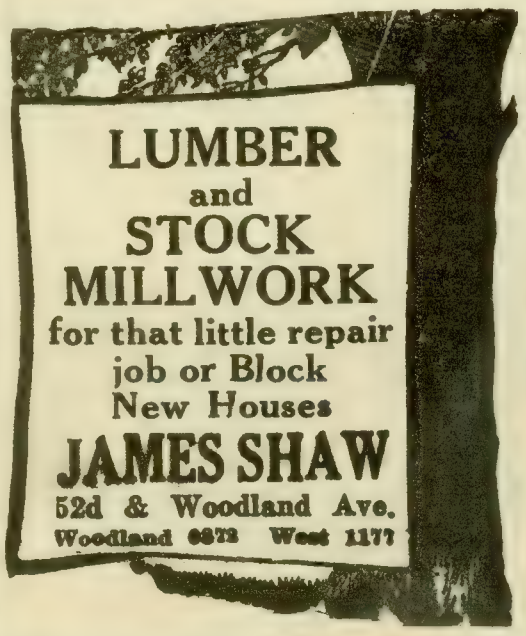
Residence (alts.) and Garage, 112 East Chestnut avenue, Chestnut Hill, Philadelphia.

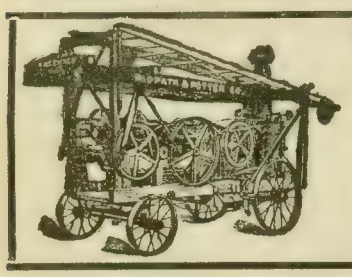
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Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Edward B. Robinette, on premises. General alterations to residence, garage, stone, 1 story, 24x37 feet, slate roof, cement floors, hot water heating, electric lighting. Architect taking bids due July 20th.

Building (alts. and add.), 1513 Walnut street, Philadelphia. Architects, Ballinger & Co., Twelfth and Chestnut streets, Philadelphia. Owners, Denny & Denny, on premises. Brick and steel, 1 story, 39x65 feet, slag roof, maple floors, rolled steel sash, hollow metal skylights, bond, iron work (heating, lighting and plumbing reserved), metal lath. Architects taking bids due July 21st.

Express Building, Eighth and Master streets, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co. (American Railway Express Co.), Reading Terminal, Philadelphia. Corrugated steel, asbestos metal, 1 story, 86x337 feet, built-up asbestos roof, asphalt and maple floors, electric light, rolled steel sash, bond, iron work. Owners taking bids due July 20th.

Gate House, Byberry, Philadelphia. **Building for Tubercular Mental Patients**, Second and Luzerne streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, City of Philadelphia, Department of Public Health, Bureau of Hospitals, Director C. L. Furbush, M. D., 584 City Hall. Construction, plumbing, heating and electric work. Owners taking bids due July 25th at noon.

Rearrangement of Offices, 14 South Eighteenth street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, J. Cutler Fuller, on premises. Stone, brick and iron work, carpentry, mill work, metal lath, marble work, plastering, fire doors. Architect taking bids.

Factory (add.), 1415-25 North street, Philadelphia, $45,000. Architects and engineers, Wilson Ruff Co., Franklin Trust Building, Philadelphia. Owners, E. L. Mansure & Co., on premises. Brick, 5 sides, 10x26 feet, slag roof, factory floors, skylights, steam heating, steel sash. Engineers will build.

Residences (14), Eleanor street, East of B street, Philadelphia, $49,300. Architect, private plans. Owner, Frank Schilling, 175 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 15x38 feet and 15x28 feet, 12x10 feet, slag roof, hot water heat, electric light. Owner will build.

Factory (add.), Thirty-fifth and Gray's Ferry Road, Philadelphia, $12,000. Architect, private plans. Owners, E. I. Dupont-De Nemours Co., on premises. Brick, 1 story, 60x113 feet, slag roof, steam heat, electric light, steel sash. Owners will build.

Residence and Store (add.), 1163 South Ninth street, $2,000. Architect, private plans. Owner, J. Saponaro, 1149 South Ninth street, Philadelphia. Brick, 2 stories, 15x35 feet, slag roof, yellow pine floors. Owner will build.

Residences (13), Thirteenth street, North of Medary avenue, and **Garages (13)**, $84,500. Architect, private plans. Owner, Philip Robin, 3334 West Harold street, Philadelphia. Brick, 2 stories, 18x38½ feeet, slag roof, hot water heat, electric light. Owner will build.

Residence (add.), 2019 Delancey street, Philadelphia, $3,000. Architect, private plans. Owners, Mrs. R. C. Cadwalader, on premises. Brick, fourth story add., 22 feet 8 inches x 18 feet, slag roof. Owner will build.

Residences (2), East side Maywood, South of Carpenter, and East side Greene, South of Carpenter, $9,500. Architect, private plans. Owners, Carson Brothers, 5601 Germantown avenue, Philadelphia. Stone, 2 stories, 24x42 feet, 10x5 feet, slate roof, oak and pine floors, hot water heat, electric work. Owners will build.

Shelter Shed, Forty-seventh street, South of Woodland avenue, $3,000. Architect, private plans. Owner, I. W. Massey, 134 North Sickels street, Philadelphia. Frame, 1 story, 20½x92 feet, slag roof. Owner will build.

Store and Two-Family Residence (alts. and add.), 1304 West Tioga street, $9,500. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, John A. Seip, on premises. Brick, 1 story, irregular size, electric work, slag roof. Architect taking sub-bids.

Residences (16), North side Larchwood avenue, East of Forty-sixth street, $192,000. Architect, private plans. Owner, Harry Goldstein, 921 North Forty-third street, Philadelphia. Brick, 2 stories, 16x33 feet, 12x21 feet and 16x56 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

Residences and Stores (2) and Garage, Sixty-second street, South of Media, $20,000. Architect, private plans. Owner, Frank Fitzpatrick, 1541 North Sitieth street, Philadelphia. Brick, 2 stories, 16x60 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Building (add.), 1700-06 Ridge avenue, Philadelphia, $15,000. Architect, private plans. Owners, F. W. Woolworth & Co., 1706 Ridge avenue, Philadelphia. Brick, 1 story, 16x82 feet, slag roof, electric lighting. Owners will build.

Residences (18), East side Newhall street, North of Manheim, $148,000. Architect, private plans. Owner, Don Peters, 515 Pelham road, Philadelphia. Brick, 3 stories, 18x38x20 feeet, slag roof, hot water heat, electric light, oak and yellow pine floors. Owner will build.

Revolving Door Entrance, 400 Chestnut street, Philadelphia. Architect, Charles L. Hillman & Son, 400 Chestnut street. Owner agent, Walter Wood, on premises. Stone and marble work, carpentry, painting, glazing. Architect taking bids due as soon as possible.

School, Salmon, Auburn and Edgemont streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Contract awarded to McCloskey, Inc., 1610 Thompson street, $171,000. Heating, Austin, Gorham & McIlvain, 1816 Ludlow street, $13,950. Electric, Strang Electric Co., 214 South Seventh street, $4,015. Plumbing, Thompson Brothers, 512 Buttonwood street, $9,200. Ventilating, Thompson Brothers, 512 Buttonwood street, $533.00.

Residences (10), 5203-21 Diamond street, Philadelphia, $4,800 each. Architect, private plans. Owner, Daniel E. Hogan, 6044 Columbia avenue, Philadelphia. Brick, 2 stories, 16x33 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (14), East side B street, South of Rocland street, and Southeast Corner and Northeast Corner B and Eleanor streets, $4,500 each. Architect, private plans. Own-

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er, W. E. Witte, 5106 North Carlisle street, Philadelphia. Brick, 2 stories, 16x25 feet, 13x10 feet and 15½x35 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (5), 3100-02-04-06-08 Comly street, $23,000. Architect, private plans. Owner, Lewis Dietrich, 3016 Comly street, Philadelphia. Brick, 2 stories, 19x48 feet, 19½x30 feet, slag roof, hot water heat. Owner will build.

Sub-Station (add.), Northwest Corner Arrott and Frankford avenue, $3,000. Architect, private plans. Owners, Philadelphia Rapid Transit Co., Eighth and Dauphin streets, Philadelphia. Brick, 1 story, 14x28 feet, slag roof. Owners will build.

Sculptor's Studio, 206 South Hutchinson street, Philadelphia, $3,000. Architect, private plans. Owner, E. Marne, 919 Locust street, Philadelphia. Brick, 2 stories, 23x46 feet, slag roof, pine floors. Owner will build.

Miscellaneous Supplies and Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, Frank H. Caven, Director, 216 City Hall. Contracts Nos. 597, laying 6-inch, 8-inch, 12-inch cast iron water pipe; 598, furnishing and delivering cast iron water pipe; 599, pilot recording outfits; 600, pipe storage yard; 601, pig lead; 602, single nozzle fire hydrants; 603, furnishing 6-inch, 8-inch and 12-inch stop valves; 604, laying 48-inch and 36-inch pipe lines, Queen Lane filters; 605, cranes for Lardner's Point and Torresdale Pumping Stations; 606, exhauster system, repair shop; 607, miscellaneous pumping station piping; 608, intake screens, Shawmont and Queen Lane Pumping Stations; 609, furnishing and laying 30-inch pipe lines; 610, booster pumping equipment; 611, disconnecting switches. Owners taking bids due July 26th at noon. For information, inquire Room 796.

Street Paving and Grading, Philadelphia. Bids opened July 11th at noon at City Hall. Low bidders:

Grading: Almond street, Tioga to Venango, T. L. Flannigan, 1716 Arch street, $1,911.92. Stillman street, Thompson to Master street, T. P. Lee, 5629 Cherry street, $6,755.04. Florence avenue, Fifty-fourth to Fifty-fifth, George A. Nahm, 2736 West Girard avenue, $3,571.00.

Asphalt Paving: Barber Asphalt Paving Co., Land Title Building, Philadelphia, low on the following: Snyder avenue, Twenty-third to Twenty-fourth, $8,391.66; Chester avenue, Sixty-fifth to Sixty-sixth, $3,188.86; Filbert street, Fifty-second street to dead end, $2,893.51; Fisher avenue, Fifteenth to Sixteenth, $5,625.26; Madison street, Cedar avenue to Aramingo avenue, $1,211.40; Morcer street, Westmoreland to Ontario, $3,643.12; Percy street, Emily to Snyder avenue, $1,549.60; Tower street, Roxborough avenue to Jamestown street, $11,408.93; Fifty-first street, Viola street to Leidy avenue, $1,999.47; Marshall street, Brown to Poplar, $12,489.90. Eastern Paving Co.: Colonial Trust Building, low on following: Woodlawn street, Sprague to Ardleigh, $4,743.80; Hutchinson street, Ruscomb to Lindsey, $4,484.50; Franklin street, Wyoming to Louden street, $3,439.80; Indiana avenue, Broad to Fifteenth, $4,500.31. Union Paving Co., Thirty-fourth and Spruce streets, low on following: Brewster avenue, Eighty-third to Eighty-sixth, $19,092.30; Delaware avenue, Columbia avenue to Dyott street, $492,434.95; furnishing asphalt paving mixtures, $44,740.00.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residences (2), Fanshaw street, North of Oakley street, $11,000. Architect, private plans. Owners, A. G. Clayton, 2105 West Somerset street, and E. Kilner, Jr., 2140 North Judson street. Brick, two and three stories, 72x32 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Paul Brosz, 2511 West Huntingdon street.

Schaff Building (add.), Fifteenth and Race streets, Philadelphia, $650,000. Architects, Marshall & Fox, Chicago, Ill. Owners, Publication & Sunday School Board, Reformed Church of America, care of Rev. Dr. Rufus Miller, on premises. Brick, cut stone and steel, 13 stories, 120x120 feet, slag roof, concrete floors, hollow tile, steam heat, electric lighting, metal lath, bond, floor hardener, iron stairs, iron work, dampproofing. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Garage, Twelfth and Glenwood avenue, Philadelphia. Architect, A. G. Zimmermann, 854 Ninth avenue, New York City. Owners, National Biscuit Co., Tenth avenue and Fifteenth street, New York City. Brick, cut stone and steel, 1 story, 184x130 feet, Barrett roof, cement floors, roof ventilators, cold water painting, alternate for terra cotta, bond, iron work, rolled steel and hollow metal doors, rolled steel sash, plumbing. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Residence (alts. and add.), 1731 Pine street, Philadelphia. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, Dr. Joseph A. Langbord, 1037 South Fifth street, Philadelphia. Roof repairs, hardwood and composition floors, metal lath, painting, plastering, glazing, plumbing, hot water heat, electric lighting, tile and marble

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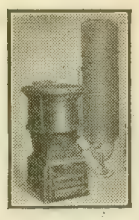
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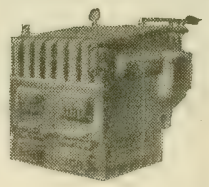
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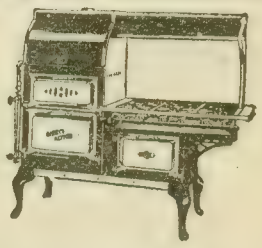
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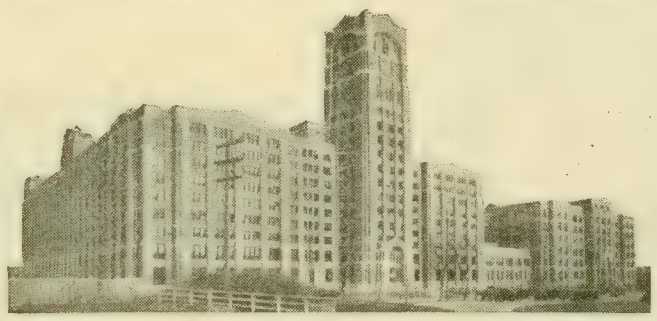
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WAREHOUSE STOCK IN PHILADELPHIA

work, hardware. Contract awarded to Pierce Henon Co., Juniper and Pine streets.

Convent, Second and Jefferson streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Michael's Roman Catholic Church, care of Rev. Hugh J. Dugan, Second and Jefferson streets, Philadelphia. Brick and brownstone, 3 stories, 47x75 feet, slag roof, pine, oak and concrete floors, hollow tile, metal ceilings, waterproofing, bond, rolled steel sash, tile and marble (heating, lighting and plumbing reserved). Contract awarded to John McShain, 1610 North street, Philadelphia.

Office Building, Northwest Corner Fifteenth and Locust streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Roy A. Heymann & Brother, Widener Building, Philadelphia. Brick, steel, granite, terra cotta, 8 stories and basement, 89x39 feet, slag roof, concrete floors, metal lath, tile, marble work, rolled steel sash, hollow metal doors, iron work, dampproofing. Contract awarded to F. V. Warren Co., 132 South Seventeenth street, Philadelphia.

Church House (alts. and add.), Chelten ave., West of Germantown avenue, $150,000. Architects, Wightman & Molitor, Heed Building, Philadelphia. Owners, First Presbyterian Church, Germantown, Philadelphia. Brick, cut stone, 2½ stories, 70x60 feet, wing 32x32 feet, slate roof, maple floors, metal lath and weather strips, bond, hollow metal skylights, rolled steel sash, tile work. Contract awarded to H. H. Wehmeyer, 519 West Cumberland street.

Bank Building (alts. and add.), 925 Chestnut street, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, Federal Reserve Bank, on premises. New passageway and stairways, brick, steel and cut stone, asphalt mastic roof, cement floors, elevator doors, safety treads, mill work, iron stairs, rolled steel sash, tile and marble work (heating, lighting and elevators reserved). Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Building (alts. and add.), 1907 Walnut street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick, steel and cut stone, 3 stories and basement, 20x19 feet, slag roof, composition, oak and pine floors, hot water heat, electric light, metal lath, tile and marble, rolled steel sash, hollow metal skylights, iron work. Contract awarded to M. J. Benamy, 5758 North Fifth street, Philadelphia.

Moving Picture Theatre, Germantown avenue and Cayuga street. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Cayuga Theatre Co., on premises. Brick and steel, slag roof, cement floors, metal lath, marble work, bronze and iron work. Contract awarded to A. Mooreshead, 67 Laurel street, Philadelphia.

Pier 127 (alts.), Allegheny avenue, Delaware River, Philadelphia. Owners, Department of Wharves, Docks and Ferries, Room 211, Pier 4, Chestnut Street, Philadelphia, George S. Sproule, Director. One story, 220x56 feet, asphalt slate roof, granolithic floors, concrete piles and pile driving, carpentry, mill work, paving, painting. Contract awarded to Simpson, Brown & Co., New York City, $67,779.

Flanders Building (alts.), Southeast Corner Fifteenth and Walnut streets, $12,000. Architect, private plans. Owners, Flanders Building, on premises. Alterations to second and third floors, south end, plastering, plumbing, structural steel, concrete work, hollow tile, steam heat, electric light, tile, marble and terrazzo. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Schools (alts.), Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Fourth and Dauphin streets, $7,375; Sargent and Jasper streets, $10,872; Thirteenth and Spring Garden streets, Philadelphia, $2,989. Miscellaneous work, carpentry, mill work, painting, electric work. Contract awarded to Mitchell Brothers, 2125 Race street.

Dispensary, Fifth and Wilder streets, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Mt. Sinai Hospital, on premises. Brick, cut stone, terra cotta and steel, 2 stories, 60x50 feet, slag roof, cement and pine floors, waterproofing, terra cotta, iron work, floor hardener, rolled steel sash, metal lath. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

Office and Display Room, Seventeenth and Parkway, Philadelphia. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, Dr. Arthur McGinnis, Logan and Greene streets, Philadelphia. Brick, steel and cut stone, 2 stories, 18x70 feet, slag roof, concrete and maple floors, metal lath, tile work, leaded glass, metal bulks, iron work (heating, lighting and plumbing reserved). Contract awarded to J. B. Kelly, 2313 Walnut street, Philadelphia.

Bank (alts. and add.), Fifth and Tabor road, Philadelphia, $80,000. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, Olney Bank & Trust Co., on premises. Brick, cut stone and steel, 2 stories and mezzanine, irregular slag roof, concrete and cork floors, dumb waiter, metal lath, tile, marble and terrazzo, rolled steel sash and skylights, bond, iron work. Contract awarded to Friel McLeister, Inc., 2146 East Norris street.

Store (alts.), 5943 Market street, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owners, West Philadelphia Electric Co., care of J. Neuman, on premises. Brick, 1 story add., 3x50 feet, skylights, heating and lighting extensions, hollow metal skylights, carpentry ,mill work. Contract awarded to B. Bornstein, Belfield and Wingohocking streets.

Store (alts.), 1320 Chestnut street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Thresher Brothers, on premises. Carpentry, mill work, concrete work, cut stone, plastering, painting, glazing, metal lath, tile, marble and mosaic, hollow metal skylights, kalamein doors, structural steel, rubbertile, iron work, bond (heating, lighting and plumbing reserved). Contract awarded to F. V. Warren Co., 132 South Seventeenth street, Philadelphia.

Factory, Lawrence and Luzerne streets, Philadelphia. Architect, private plans. Owners, Apex Hosiery Co., on premises. Brick, concrete and steel, 6 stories, 155x90 feet, slag roof, concrete floors, elevators, waterproofing, iron work, floor hardener, steam heat, electric light, rolled steel sash. Contract awarded to Behling & Bush, Drexel Building, Philadelphia.

Residence, North side Locust avenue, West of Magnolia, $17,913. Architect, Walter F. Price, 119 South Fourth street, Philadelphia. Owner, Walter P. Shipley, 477 Locust avenue, Philadelphia. Stone, 3 stories, 42x28 feet, 17x84 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, metal lath. Contract awarded to I. A. Dunkelberger, 71 Herman street, Philadelphia.

Residences (2) and Garage, West side Tabor road, South of Cottman, $11,300. Architect, private plans. Owner, N. Geiger, 2934 North Reese street, Philadelphia. Frame, 2 stories, 16x37 feet, garage, 1 story, 10x19 feet, electric light, oak, pine and cement floors, electric light. Contract awarded to August Glazer, 1646 North Fourth street, Philadelphia.

Residence, St. Martins, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, Dr. George Woodward, North American Building, Philadelphia. Stone, 2½ stories. Contract awarded to J. S. Cornell & Son, Morris Building, Philadelphia.

Residence (alts.), 1718 Walnut street, Philadelphia. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owner, Mrs. Sidney E. Hutchinson, on premises. Carpentry, mill work, plastering, painting, stairways, glazing. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Franklin Sub-Station, 52 North Sixth street, Philadelphia. Architect, private plans.

Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. General alterations and additions. Contract awarded to Franklin M. Harris & Co., 1520 Parrish street, Philadelphia.

Theatre (alts.), 1638 Point Breeze avenue, Philadelphia. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owner, James P. Fogarty, 1638 Point Breeze avenue, Philadelphia. Brick, cut stone and structural steel, slag roof, cement floors, metal partitions, terra cotta, bond, plastering, carpentry, mill work. Contract awarded to Felix Claro, 5313 Malcolm street, Philadelphia.

Residence, 2013 East Susquehanna avenue, Philadelphia, $18,000. Architect, William Brinkworth, 426 Walnut street, Philadelphia. Owner, Frank Hessinger, 2009 East Susquehanna avenue, Philadelphia. Brick and steel, 3 stories, 20x66 feet, 16x31 feet, slag roof, oak, pine and composition floors, hot water heat, electric light. Contract awarded to William E. Stone, 2069 East Dauphin street, Philadelphia.

Residence, 1355 Lindley avenue, Philadelphia, $12,000. Architect, private plans. Owner, Charles A. Stout, Broad and Wagner streets, Philadelphia. Brick, 3 stories, 20x23 feete, 16x26 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Wedow & Myers, 528 Perry Building, Philadelphia.

Residences (9), West side Lawrence street, North of Chew street, $36,000. Architect, private plans. Owner, J. Fred Burkhard, 5519 North Fifth street, Philadelphia. Brick, 2 stories, 16x26 feet, 10x10 feet, slag roof, electric light. Contract awarded to Charles Sinn ,5518 North American street, Philadelphia.

Shop, 226-30 North Juniper street, Philadelphia, $20,000. Architect, private plans. Owner, Arnold H. Abbott, Broad and Race streets, Philadelphia. Brick, 2 stories, 49½x120 feet, slag roof, steam heat, electric light. Contract awarded to D. Henwood, 717 South Sixty-third street, Philadelphia.

Store and Storage Building, 911-911½ Christian street, $11,000. Architect, private plans. Owners, Cacciola Brothers, on premises. Brick, 3 stories, 24x47½ feet, slag roof, electric work, steam heat. Contract awarded to Luzzi & Turlizzi, 1022 Annin street, Philadelphia.

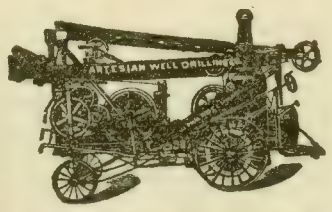
Residences (2), West side Eighth street, South of Sixty-fifth avenue, $11,000. Architect, private plans. Owner, W. B. Sloan, Land Title Building, Philadelphia. Brick, 3 stories, 20x34 feet, slag roof, hot water heating. Contract awarded to R. R. Zane, 801 Roosevelt Boulevard, Philadelphia.

Garage, Northwest Corner Thirty-third and Ludlow streets, Philadelphia, $10,000. Architect, private plans. Owner, M. J. Lawler, 857 North Taney street, Philadelphia. Brick, 1 story, 51½x97 feet, slag roof, cement floros, electric work. Contract awarded to A. Gallagher, 3700 Haverford avenue, Philadelphia.

Stable, Northwest Corner Hunting Park and McMichael street, $9,000. Architect, private plans. Owners, Tasty Baking Co., on premises. Brick, 1 story, 30x72 feet, slag roof, electric light, steam heat. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

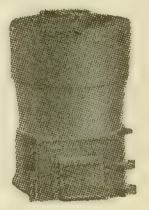
Residence, Southwest Corner Haines and Boyer streets, and **Garage,** $8,550. Architect, private plans. Owner, Raymond J. Tatlow, 5388 Chew street, Germantown, Philadelphia. Brick, 2 stories, 27x36 feet, slag roof, oak and pine floors, tile work, hot water heat, electric light. Contract awarded to Melvin H. Grebe, 8434 Germantown avenue.

Residence, Southwest Corner Rising Sun avenue, West of Alter, $12,000. Architect, private plans. Owner, Adam Keffenberger,



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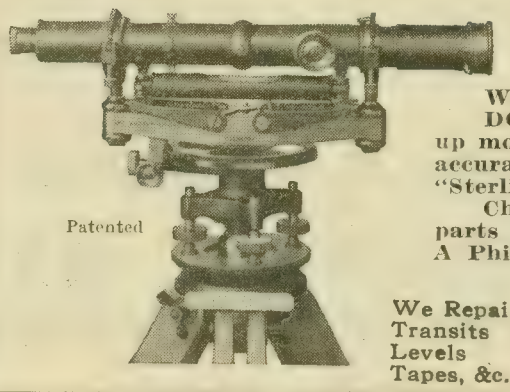
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Rising Sun and Princeton street, Philadelphia. Brick, 2 stories, 18x55x10 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Arthur Malz, 2002 North Fourth street, Philadelphia.

Residence, Northwest Corner Sixth and Medary streets, $9,000. Architect, private plans. Owner, George W. Hanson, 1005 Sixty-ninth avenue, Philadelphia. Stone, 2 stories, 44x40½ feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Gilbert S. Smith, 1715 Chestnut street.

Residences, South side Benner street, West of Lawndale, $7,500. Architect, private plans. Owner, John Falkenbach, 2819 Hancock street, Philadelphia. Brick, 2 stories, 15x38 feet, slag roof, electric work. Contract awarded to John J. Falkenbach, 1202 Levick street.

Residence, South side Duncan street, West of Melrose avenue, $4,800. Architect, private plans. Owner, Joseph Shibe, care of builder. Brick, 2 stories, 16x56½ feet, slag roof, electric work. Contract awarded to C. Lakowicz, 4655 Torresdale avenue, Philadelphia.

Residences (2), 920-22 Hellerman street, Philadelphia, $5,000 Architect, private plans. Owner, John A. Boyle, Bulletin Building, Philadelphia. Brick, 2 stories, 16x43 feet 8 inches, slag roof, hot water heating. Contract awarded to Jacob Hansen, Fox Chase Post Office, Philadelphia.

Apartment (alts. and add.), 416 South Forty-first street, Philadelphia, $4,000. Architect, private plans. Owner, E. E. Bratton, 416 South Forty-first street, Philadelphia. Brick, 3 stories, 15x50 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to Bratton & Co., 416 South Forty-first street, Philadelphia.

Garage (add.), 4921 Wayne avenue, Philadelphia, $3,800. Architect, private plans. Owners, Burd P. Evans, Collegeville, Pa. Brick, 1 story, 65x55 feet, slag roof, cement floors. Contract awarded to William J. Dowell, 5712 Crittenden streeet.

Garage and Storage Room, West side Navanhoe street, South of Mermaid Lane. Architect, private plans. Owner, Dr. Charles Frazier, Chestnut Hill, Philadelphia. Stone, 1 story, 21x23 feet, slate roof, cement floors. Contract awarded to Wolverton & Co., 222 East Willow Grove avenue.

Residence (add.), 248 South Twenty-first street, Philadelphia, $7,000. Architect, private plans. Owner, Edward N. Goodman, on premises. Brick, 1 story add., 12x43 feet, slag roof, hot water heat, electric light, oak and pine floors. Contract awarded to Joseph Price, 2048 Rittenhouse street.

Residence and Store (add. and alts.), 2136-38 Ridge avenue, $5,000. Architect, private plans. Owners, Victor and Morris Miller, on premises. Brick, 1 story, irregular size, slag roof, electric work. Contract awarded to Aaron Rubin, 1127 Thompson street, Philadelphia.

Residence (alt. and add.), Southeast Corner City Line and Lancaster avenue, $10,000. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Overbrook Presbyterian Church, on premises. Brick, 2 stories, 15½x26 feet, slag roof, yellow pine floors. Contract awarded to Charles C. Pace, Merion, Pa.

Garage, 3475-77 Coral street, Philadelphia, $2,880. Architect, private plans. Owner, Charles Brushblacker, 3476 Amber street, Philadelphia. Brick, 1 story, 28x32 feet, slag roof, cement floors, hot water heat. Contract awarded to Higgins & Boyer, 3411 Tilton street.

Bakery (add. and alts.), 905-07 North Third street, Philadelphia, $3,000. Architect, private plans. Owner, M. Brownstein, 905 North Third street, Philadelphia. Brick, 1 story, 32x19 feet, slag roof, yellow pine and cement floors, electric light. Contract awarded to Charles Belinsky, 2630 South Ninth street, Philadelphia.

Residence and Store (add. and alts.), 2839-41 North Twenty-second street, $2,200. Architect, private plans. Owner, N. Resnite, 2841 North Twenty-second street, Philadelphia. Brick, 1 story, 7x28 feet, slag roof, yellow pine floors. Contract awarded to Nemirovsky & Shapiro, 449 Fitzgerald street.

Garage and Pool, Northeast Corner Twenty-ninth and Clearfield streets, $2,000. Architect, private plans. Owner, John De Eugenie, 3103 North Twenty-ninth street, Philadelphia. Brick, 2 stories, 32x33 feet, slag roof, cement floors. Contract awarded to G. Salvato, 3001 Bonsall street, Philadelphia.

Building (alts.), 5616 Germantown avenue, Philadelphia, $2,000. Architect, private plans. Owners, Chain Shirt Shop, on premises. General interior alterations. Contract awarded to J. Maurer & Co., 1304 North Second street, Philadelphia.

Residence & Store (2) (add.), 1238-40 North Fifty-second street, $4,750 each. Architect, private plans. Owner, H. Schwarzman, on premises. Brick, 1 story, 16x51½ feet, slag roof, general alterations. Contract awarded to L. Swerdloff, 228 South Fifty-ninth street, Philadelphia.

Warehouse (add.), 319 Vine street, Philadelphia, $4,000. Architect, private plans. Owner, John Lennon, 2210 Mt. Vernon street, Philadelphia. Brick, 2 stories, 20x29 feet, cement floors, electric work. Contract awarded to T. & S. Const. Co., Sixteenth and Brandywine streets.

Residences (7), Tacony and Kennedy streets, $25,000. Architect, private plans. Owners, W. H. Cameron and J. Mallon, 2212 Howarth street, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, slag roof, electric work. Contract awarded to Ernest M. Carlson, 3224 Higbee street.

Residences (2) (alts. and add.), South side Wingohocking street, East of Chadwick street, $2,000. Architect, private plans. Owner, Mr. Rose, Logan, Philadelphia, care of builders. Brick, 1-story add., 15x6 feet, slag roof, yellow pine floors. Contract awarded to Shapiro & Nemerosky, 449 Fitzgerald street.

Store and Storage (alts.), 5937-39 Market street, $3,000. Architect, private plans. Owners, Sussman Brothers, on premises. General interior alterations. Contract awarded to B. Bornstein, 1319 Wingohocking street.

Residence and Store (alts. and add.), 5630 Chestnut avenue, $3,000. Architect, private plans. Owner, William Nolan, on premises. Brick, 2 stories, 16x13 feet, slag roof, yellow pine floors. Contract awarded to G. Thomas Holloway, 5433 Spring street.

Garage, 3326-28 Richmond street, Philadelphia, $2,800. Architect, private plans. Owner, W. Weroncki, Northeast Corner Thompson and Lehigh avenue, Philadelphia. Brick, 1 story, 31x36 feet, slag roof, cement floors. Contract awarded to S. Petry Kowski, 3074 Aramingo avenue.

Residences (2), South side Hermit Lane, East of Houghton, $25,000. Architect, private plans. Owner, J. Russell Fawley, 228 Sumac street, Philadelphia. Stone, 3 stories, 27½x44 feet, 14x9½ feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to William H. Eddleman & Son, 453 Green Lane, Roxborough.

Residence, Northwest Corner Charles and Tyson streets, $8,000. Architect, private plans. Owner, F. A. Shallcross, 3505 Disston street, Philadelphia. Brick, 2 stories, 20x35 feet, slag roof, oak and pine floors, tile work, hot water heat, electric light. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Building (add.), 1252 Point Breeze avenue, Philadelphia, $4,000. Architect, private plans. Owner, M. Rosenbaum, Point Breeze avenue and Dickinson street. Brick, 2 stories, 11x19 feet, slag roof, yellow pine floors. Contract awarded to M. Glashofer, 529 Morris street, Philadelphia.

Synagogue (add.), Southwest Corner Eighth and Porter streets, $35,000. Architect, private plans. Owners, Shawne Eliza Congregation, on premises. Brick, second story add., 55x70 feet, slag roof, steam heat, electric work, yellow pine floors. Contract awarded to Charles Schnitzer, 2513 North Thirty-first street, Philadelphia.

Garage, 69 East Haines street, Philadelphia, $20,000. Architect, private plans. Owners, Philadelphia Realty Co., 111 West Mt. Airy avenue, Philadelphia. Brick, 1 story, 67x128 feet, slag roof, cement floors, electric work. Contract awarded to John De Paul, 80 East Sharpnack street.

Residence and Store (add.), 1533 Columbia avenue, Philadelphia, $2,500. Architect, private plans. Owner, Miss Rose M. Donnelly, on premises. Brick, second story add., 14½x24 feet, slag roof, oak and pine floors. Contract awarded to John W. Emery Co., 34 South Sixteenth street, Philadelphia.

Residence and Store (alts. and add.), 2713 West Girard avenue, $15,000. Architect, private plans. Owner, Albert C. Sauter, on premises. Brick, 3 stories, 15x40 feet, slag roof, composition and oak floors, hot water heat, electric light, tile work, plate glass, metal sash. Contract awarded to Philip Haibach Cont. Co., 1261 North Twenty-sixth street.

Bath House (add.), 973 North Seventh street, Philadelphia, $2,500. Architect, private plans. Owner, Samuel Bershad, on premises. Brick, 3 stories, 4x38 feet, slag roof, cement floors, electric work. Contract awarded to Philip Haibach Cont. Co., 1261 North Twenty-sixth street.

Home (alts. and add.), East side Eighteenth street, North of Jefferson, $6,500. Architect, private plans. Owners, Little Sisters of the Poor, on premises. Brick, 3 stories, 8x30 feet, slag roof, electric work. Contract awarded to Charles Mills, 2647 Almond street, Philadelphia.

Residences (2), 6221-23 Rising Sun avenue,

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Philadelphia, $6,000 each. Architect, private plans. Owner, Edward Simons, 828 Passmore street, Philadelphia. Brick, 2 stories, 18x54 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to Daniel K. Hiltebeitel, 3840 North Fifteenth street.

Rooming House (alts. and add.), Northeast Corner Fortieth and Sansom streets, $5,000. Architect, private plans. Owner, W. T. Harris, Jr., Fortieth and Chestnut streets, Philadelphia. Brick, 3 stories, 16x10 feet, slag roof, electric work. Contract awarded to Ernest Purring & Son, Narberth, Pa.

Residence and Store (alts.), 5527 Lansdowne avenue, $2,750. Architect, private plans. Owner, S. Krakover, on premises. General interior alterations. Contract awarded to Hyman Krakover, 1639 North Fifty-second street, Philadelphia.

PENNSYLVANIA Construction News

Men's Dormitory Group, State College, Pa. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Pennsylvania State College, State College, Pa. Brick, cut stone and steel, 4 stories, 106x42 feet, slate roof, cement, oak and pine floors, metal ceilings, waterproofing, terra cotta, bond, fire and kalamein doors, metal lath, tile and terrazzo work. Architects taking bids due July 26th before noon.

School, Penllyn, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building. Owners, School District, Penllyn, Pa. Brick and steel, 1 story, 58x76 feet, slate roof, maple floors, tile and marble work, iron work. Architect taking bids due July 20th.

Stores and Apartments (12), Harrisburg, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, A. H. Shaffer, Tenth street below Marekt, Harrisburg. Brick, 3 stories, 62x85 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Residence, Littlestown, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owner, Dr. H. S. Crouse, Littlestown, Pa. Stucco, 2½ stories, 30x40 feet, composition roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Residence, Littlestown, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owner, Dr. Hickey, on premises. Brick, 2½ stories, 20x45 feet, slate roof, hardwood floors, tile work, electric light. Plans in progress.

Residence, Cloverly Heights, Harrisburg, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owner, M. L. Fisher, 1122 Green street, Harrisburg, Pa. Stucco, 2½ stories, 24x32 feet, shingle and composition roof, hardwood floors, hot air heat, electric light, tile work. Plans in progress.

Bank, Hummelstown, Pa., $45,000. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, Hummelstown National Bank, U. L. Balsbaugh, on premises. Brick, stone, 1 story, 40x45 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, metal window guards, ornamental iron work. Plans in progress.

Mercy Home (add.), Second and Liberty streets, Harrisburg, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, Sisters of Mercy, care of architects. Brick, 3 stories, 20x60 feet, slag roof, hardwood floors, heating extension, electric light, metal lath. Plans in progress.

Church, Paxtang, Harrisburg, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, Paxton Presbyterian Church, Rev. King, Paxtang, Pa. Stone, 1 story and basement, 35x65 feet, slate roof, hardwood floors, steam heat, electric light, metal lath. Plans in progress.

Residence, Fairview, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Charles Freymeyer, 734 North Front street, Reading, Pa. Brick and plaster, 2½ stories, 25x44 feet, slate roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Warehouse, Hazleton, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Hazleton Wholesale Grocery Co., on premises. Mill construction, 2 stories, 40x76 feet, slag roof, concrete floors, electric light, rolled steel sash. Plans in progress.

Apartments (3) (add.), 120 South Eighth street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, George K. Kessen, 118 South Eighth street, Reading, Pa. Brick, 3 stories, 20x90 feet, tin roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Apartment, 44 North Fourth street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, C. E. Riess & Co., 16 North Fourth street, Reading, Pa. Brick, 3 stories, 22x76 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Packing House, Second and Chestnut streets, Reading, Pa. Architects and engineers, Himmelbach & Schlich, 136 Liberty street, New York. Owners, Central Abattoir Co., Reading, Pa. Brick, steel, 2 stories and mezzanine, 125x82 feet, Barrett roof, concrete floors, hollow tile, roof ventilators, waterproofing, iron work, rolled steel sash, hollow metal skylights. Revised plans in progress.

Residences (3), Cynwyd, Pa. Architect, J. Bedford Wooley, 1627 Sansom street, Philadelphia. Owner, Frank H. Mancill, care of architect. Stone, frame and stucco, 3 stories, 37x25 feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile work, bond. Plans about completed. Architect will take bids in a few days.

Whitby Hall (removal and rebuilding), Tunbridge road, Haverford, Pa. Architect, H. Louis Duhring, 1309 Locust street, Philadelphia. Owner, George B. Taylor, care of architect. Removing building now located at Fifty-eighth and Florence avenue and rebuilding at Haverford, size of lot 354x257 feet. PPlans in progress. Architect will be ready for bids in one week.

Apartments, Kirklyn, Pa. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Mrs. A. W. Adler, 4318 Market street, Philadelphia. Brick and terra cotta, 2 stories, 55x100 feet (12 apartments), slag roof, hardwood floors, hot water heat, electric lighting, tile work, sheet metal work, stone and cement work. Revised plans in progress.

Parish Buildings, Bywood, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Alice's Roman Catholic Church, care of Rev. William L. Hayward. Preliminary plans in progress. Too early for details.

Bank, Stores and Office Building, Tyrone, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Farmers' & Merchants' Bank, Tyrone, Pa. Stone, brick and steel, 5 stories, 100x60 feet, slag roof, hardwood, pine and cement floors, hollow tile, roof ventilators, metal window guards, bronze work, tile and marble (plumbing, heating, lighting, elevators and vaults separate bids). Revised plans in progress.

Church, Baltimore, Md. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Church of Our Saviour, Rev. T. C. Sorge, Baltimore. Stone, 1 story and basement, 120x50 feet, slate roof, hardwood floors, hollow tile, electric light, metal lath, tile and marble work, waterproofing and dampproofing, ornamental iron work. Plans in progress.

Show Room and Garage, West Market street, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, J. Y. Burgard, 351 West Market street, York, Pa. Brick, fireproof, 3 stories, 75x235 feet, concrete foundations, slag roof,tile work, steam heat, electric light, marble work, metal lath, rolled steel sash and skylights, waterproofing and dampproofing, ornamental iron work. Architect will be ready for bids in one week.

Residence, Harrisburg, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, M. H. Thomas, 1400 North Second street, Harrisburg, Pa. Frame, 2½ stories, 30x36 feet, shsingle roof, hardwood floors, electric light, tile work. Owner ready for bids.

Apartment and Store (alts. and add.), King and Queen streets, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, Keystone Hotel, care of E. Bush, 132 South Queen street, York, Pa. Brick, 3 stories, 70x31 feet, slag roof, pine floors, electric light, tile work, refrigeration. Architect ready for bids due July 22nd.

Store, Office and Apartment (alts. and add.), Lewistown, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owner, Walter Fosnot, on premises. Brick, 3 stories, 30x60 feet, slag roof, pine floors, vapor heat, electric light. Owner will take bids next week.

Dormitory, Saltsburg, Pa., $25,000. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Kiski School, care of Mr. Marks, Saltsburg, Pa. Stucco, 2 stories and basement, 30x60 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Owner is building.

Manufacturing Plant, Hatboro, Pa. Engineers, Austin Co., Bulletin Building, Philadelphia. Owners, Roberts & Mander Stove Co., Eleventh and Washington avenue. Brick, concrete and steel, 2 stories, 16x60 feet, and 1 story, 128x155 feet, maple floors, asphalt slag roof, mastic, asphalt, monolithic floors, elevators, waterproofing, iron work, rolled steel sash. Engineers will build.

School (high), Ambler, Pa. Architect, S. S. Conover, 11 South Sixteenth street, Philadelphia. Owners, Board of Education, Ambler, Pa. Lowest bid submitted by Barnes & McLaughlin, Estey Building, Philadelphia, $139,800. Owners will take new bids in two weeks.

Junior High School, Ardmore, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Lower Merion School Board, Ardmore, Pa. Brick, cut stone and steel, 2 stories and basement, 232x100 feet, slag roof, cork tile, mastic, cement and maple floors, hand elevator, metal lath, tile and marble work, rolled steel skylights, bond, iron work, terra cotta. Architects taking bids due July 24th at noon.

Residence (alts. and add.), Penllyn, Pa. Architects, Willing, Sims & Talbutt, 1627 Sansom street, Philadelphia. Owner, Charles E. Ingersoll, Penllyn, Pa. Hollow tile and plaster, 2½ stories, 19x37 feet, slag and

shingle roof, oak and pine floors, hollow tile, bond, iron work. Architects taking bids due July 21st.

Sunday School Chapel, Swedeland, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Alan Wood Iron & Steel Co., Widener Building, Philadelphia. Brick, cut stone, stucco and steel, 1½ stories, 69x43 feet, slate roof, composition and mineral floors, metal lath, tile work, metal ceilings, dampproofing, bond, iron work. Architect taking bids due July 21st.

Crushing Plant, Naginey, Pa. Engineer, private plans. Owners, Midvale Steel Co., Nicetown, Pa. Reinforced concrete, 48x15 feet. Owners taking bids due as soon as possible.

School, Stonehurst, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, School District, Upper Darby Township, Pa. Owners taking bids due August 3rd.

Residence and Garage, Hollidaysburg, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owner, E. J. Callaghan, Altoona, Pa. Brick, 2 stories, 32x45 feet, slatet roof, hardwood floors, hot water heat, electric light, tile work. Owner is building.

Comfort Station, Market Square, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, PPa. Owners, City of Harrisburg, care of Mr. Lynch, Dauphin Building, Harrisburg. Concrete, 1 story, 55x60 feet, asbestos roof, tile floors, electric light, plumbing. Low bidder: C. W. Strayer, Green and Forster streets, Harrisburg, Pa.

Manufacturing Building, Bridgeport, Pa. Architects, Ballinger Co. ,Twelfth and Chestnut streets, Philadelphia. Owners, James Lees & Sons, Bridgeport, Pa. Reinforced concrete and steel, 5 stories. Architects taking bids due July 20th.

Pennsylvania Contracts Awarded

Mother House and Power House, Dallas, Pa. Architect, J. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, Wilkes-Barre, Pa. Brick, granite and steel, 3 and 4 stories and basement, 152x50 feet, (2) wings 37x83 feet, and (1) wing 45x28 feet, power house, 1 story and basement, 59x43 feet, slag and tile roof, oak and cement floors, hollow tile, dampproofing, iron stairs and work, bond, hollow metal doors, copper skylights, marble and terrazzo, metal lath. Contract awarded to F. V. Warren Co., 132 South Seventeenth street, Philadelphia.

Residence (alts. and add.), Ardmore, Pa., $20,000. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owners, Edward B. Leisenring, Ardmore, Pa. Stone, 2 stories, 21x32 feet, shingle roof, hardwood floors, hot water heating, electric lighting, plumbing, tile and marble work, general interior alterations. Contract awarded to Frank E. Wallace, 1220 Chancellor street.

School, Abington, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Board of Education, Abington Townshsip, Pa. Contract awarded to Moore & Co., Nineteenth and Cherry streets, Philadelphia, $76,960, alternate $62,000. Plumbing, E. A. Hurtz, $3,127. Heating and ventilating, Bowers & Co., 1629 Ludlow street, Philadelphia, $13,468. Electric, Bryn Mawr Electric Co., Bryn Mawr, Pa., $2,600.

Store and Offices, Third street, Harrisburg, Pa. Architect, B. E. Starr, Spooner Building, Harrisburg, Pa. Owner, John Kelley, 3 North Third street, Harrisburg, Pa. Stone, brick, 3 stories, 20x60 feet, slag roof, composition floors, city heating, electric lighting, hollow tile, metal lath, tile and marble work, structural steel work. Contract awarded to M. H. Gettys, Harrisburg, Pa.

Residence, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, John A. Yost, Wahsington avenue, Phoenixville, Pa. Hollow tile, stucco, 2 stories, 26x38 feet, asbestos roof, oak and tile floors (heating, plumbing, lighting reserved). Contractawarded to C. H. Richardson, Phoenixville, Pa.

Bungalow, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Frank Katz, Bridge and Cedar streets, Spring City, Pa. Brick, stone, 1½ stories, 20x40 feet, asbestos roof, oak floors, pipeless heat, electric light, plumbing, waterproofing, terra cotta. Contract awarded to Frank Walley, Spring City, Pa.

Residence (alts. and add.), Llandrillo road, Cynwyd, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, J. T. Hutchings, on premises. Hollow tile and stucco, 1 and 2 stories, 14x30 feet, tin and slag roof, oak and pine floors, electric light, tile and marble work. Contract awarded to Charles C. Pace, Merion, Pa.

Store and Residence (alts. and add.), 115 North Ninth street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, J. W. Heilman, on premises. Brick, 2 stories, 45x15 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Oscar Degler, 1041 Walnut street, Reading, Pa.

Garage and Apartment, Mt. Penn, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, I. F. Hart, care of architect. Reinforced concrete and brick, 2 stories and basement, 60x60 feet, 40x60 feet, slag roof, concrete and pine floors, hot water heat, electric light, tile work. Contract awarded to C. H. Schlegel, 2328 East Perkiomen street, Reading, Pa.

School, Sinking Spring, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owners, Sinking Spring School Board, H. L. Fisher, Sinking Spring, Pa. Brick, cut stone, reinforced concrete, 3 stories, 78x108 feet, slag and slate roof, hardwood floors (heating, plumbing and electric work reserved), tile work, skylights, bond, structural iron work. Contract awarded to H. W. Fry, Martindale, Pa.

Double Residence, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, John Jones & Sons, Penn street, Spring City, Pa. Brick, stone, 2½ stories, 33x51 feet, slate roof, oak and pine floors (heating, lighting and plumbing reserver), wood sash. Contract awarded to Frank Walley, Spring City, Pa.

Store and Residence, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Stauffer Brothers, Spring City, Pa. Brick, stone, 2 stories, 26x50 feet, composition roof, concrete and wood floors, steam heat, electric light, refrigerators, ice machines, elevators, tracks and conveyors, bulks, ornamental iron work. Contract awarded to Frank Walley, Spring City, Pa.

Church, Sunday School and Parsonage, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, United Evangelical Church, eRv. O. O. Bailey, 121 West Jackson street, York, Pa. Brick, 1 story and basement, 75x10 feet, slate roof, hardwood floors, concrete foundations, steam heat, electric light, tile work. Contract awarded to Hess Brothers, York, Pa.

Store (alts.), King and George streets, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, J. Liebovitz, care of architect. Brick, general interior alterations. Contract awarded to Samuel Gladfelter, York, Pa.

Residence, Office and Garage, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, Dr. J. H. Howard, York, Pa. Brick, 3 stories, 25x80 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded to I. Riandollar & Son, York, Pa.

Laboratory and Building, Alts. to Old Hospital and Basement of Children's Pavilion, Harrisburg, Pa. Architects, Stevens & Lee, 9 Park street, Boston, Mass. Owners, Harrisburg Hospital, Harrisburg, Pa. Brick and steel, 2 stories and basement, 70x81 feet, composition roof, concrete and linoleum floors, metal lath, waterproofing, terra cotta, iron work, kalamein doors (heating, lighting and plumbing separate bids). Contract awarded to S. W. Shoemker & Son, 421 Walnut street, Harrisburg, Pa.

Telegraph Building (add.), Locust street, Harrisburg, Pa. Architects, Lawrie & Green Co., Commonwealth Building, Harrisburg. Owners, Harrisburg Telegraph, care of E. J. Stackpole, 216 Locust street, Harrisburg, Pa. Brick, concrete and steel, 2 stories and basement, 30x40 feet, composition roof, electric lighting. Contract awarded to W. S. Miller, Telegraph Building, Harrisburg, Pa.

Fraternity House (alts. and add.), Carlisle, Pa. Architects, Lawrie, Green Co., Commonwealth Building, Harrisburg. Owners, Phi Kappa Sigma, care of architects. Frame, stucco, 2 stories, 30x30 feet, composition roof, pine floors. Contract awarded to Mr. Lackey, builder, Carlisle, Pa.

Inn (alts.) to Apartments, Bryn Mawr, Pa. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owners, Martin Estate, care of Bryn Mawr Trust Co., Bryn Mawr, Pa. Stone, general renovation, alterations and additions. Contract awarded to Joseph J. Graham & Son, Bryn Mawr, Pa.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Luzerne County, Route 4, Salem Township, Shickshinny Borough. Contract awarded to D. L. Risser, Lebanon, Pa., $112,681.85.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. The following contracts have been awarded:

Crawford County, A-1867-68, Cambridge and Rockdale Townships. Penn Erie Const. Co., Erie, Pa., $46,099.40.

Erie County, A-1872-74, Washington Township and Edinboro Borough. Penn Erie Const. Co., Erie, Pa., $122,342.12.

Erie County, A-1880-75, Leboeuf Township and Mill Village Borough. Penn Erie Const. Co., Erie, Pa., $58,919.10.

Lackawanna Co., R-365, North Abington and Benton Townships. William C. Evans, Ambler, Pa., $181,686.88.

Lackawanna County, R-322, A-1632, Scott Township. M. & T. E. Farrell Co., West Chester, Pa., $81,261.54.

McKean County, R-100-101, Port Allegheny Borough and Liberty Township. George Metzger, Jr., Emporium, Pa., $197,134.48.

Susquehanna County, R-174, Harford Township. R. D. Richardson Const. Co., Scranton, Pa., $190,352.50.

Butler County, R-251, Bruin Borough and Parker Township. C. E. Walter, Butler, Pa., $131,445.24.

New Jersey Construction News

Arcade Hall, Toms River, N. J. Architect, Oliver Randolph Parry, Builders' Exchange, Philadelphia. Owners, American Legion, Post 129, George P. Vandervere, Toms River, N. J. Brick, steel and cut stone, 2 stories, 104x66 feet, Barrett roof, cement and pine floors, hollow metal skylights, waterproofing, bond, iron work. Architect taking revised bids due July 24th.

School, Pitman, N. J. Architects, Ritter & Shay, North American Building, Philadel-

phia. Owners, Board of Education, Pitman, N. J. Brick, steel, hollow tile and stone, 2 stories and basement, 161x112 feet, composition roof, mastic and pine floors, roof ventilators, fireproofing, waterproofing, iron stairs, bond, hollow metal doors, metal lath (furniture and lighting fixtures reserved), (heating (steam), electric work, plumbing and ventilating separate bids). Owners taking bids due July 24th.

Residences (2), Hillcrest avenue, Trenton, N. J., $8,000. Architect, private plans. Owner, Germaro Tuccilo, 165 Anderson street, Trenton, N. J. Brick and frame, 2½ stories, 28x43 feet, slate roof, electric light. Owner will build.

Residence, Belmont and Massachusetts avenues, Washington, D. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, name withheld. Brick, cut stone, steel, 3 stories, 46x35 feet, wing 20x20 feet, garage, 1½ stories, 20x25 feet, composition roof, vapor heat, electric light, terra cotta (oak floors reserved). Architect has received bids.

Residence and Garage, Gilmore and Cedar avenues, Merchantville, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Harry R. Sooy, care of architect. Brick, stone and castone, 2½ stories, 47x41 feet, 1½ stories, 21x21 feet, asbestos shingle roof, oak, pine and cement floors, hot water heat, electric light, metal lath, tile and marble, rolled steel sash, bond, iron work. Architect taking bids due July 22nd at noon, daylight saving.

Residence and Garage, Church road, Merchantville, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Raymond Sooy, care of architect. Hollow tile and stucco, 1½ stories, 65x34 feet and 22x21 feet, asbestos shingle roof, oak, pine, cement and composition floors, hollow tile, hot water heat, electric light, metal lath, tile and marble work, rolled steel sash, bond, iron work. Architect taking bids due July 22nd.

Road Work, King's Highway, Camden to Delaware Township, N. J. Lowest bidder: William Eisenberg, National Bank Building, Vineland, N. J., $65,809.84.

Miscellaneous Construction News

Department Store, Pocomoke, Md. Architects, Owen & Sisco, Continental Building, Baltimore, Md. Owner, T. F. Hargis, Baltimore, Md. Lessee, M. L. Veasey, Baltimore, Md. Brick, steel, concrete and limestone, 3 stories, Ehret roof, oak and pine floors, safety treads, waterproofing, iron work, floor hardener, bond, fire doors, hollow metal skylights, rolled steel sash, tile and terrazzo, metal lath (heating, lighting, plumbing, elevators and sprinklers reserved). Architects taking bids.

Proposals

INVITATION FOR PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 5, 1922. Sealed Proposals will be opened in this office at 3 P. M., July 31, 1922, for the construction (exclusive of mechanical equipment) of an additional wing to the Main Hospital Building of the United States Public Health Service Hospital at Tanner's Creek, Norfolk, Va., in accordance with drawings and specifications, which may be obtained from Neal A. Melick, Superintendent of Constructioin, at the Site of the Hospital, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid, shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 12, 1922. Sealed Proposals will be received at this office until 10 A. M., August 7, 1922, and then opened, for furnishing and installing Storm Enclosure at the U. S. Post Office and Court House at Augusta, Ga., in accordance with the specification and the drawing mentioned therein, copies of which may be had at this office or at the office of the Custodian, Augusta, Ga., in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 10, 1922. Sealed Proposals will be opened in this office at 3 P. M., July 31, 1922, for the Mechanical Equipment of the East Wing of the U. S. Veterans' Hospital, Norfolk, Va. (Tanner's Creek Site), in accordance with specification and drawings, copies of which may be had at this office or at the office of the Superintendent of Construction, at the building, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

FINISHING THE FLOORS OF THE SMALLER HOUSE

BY A. ASHMUN KELLY

There are two ways that may be employed in finishing the floors of the average small or medium house. The floor most often painted is the floor of the kitchen, and where the wood is rather soft it is an ideal finish.

Some think paint the best for any kind of wood that may be laid on the kitchen floor. However, most people will want a hard pine flooring, and want this finished au natural, which means either oil rubbed in, or shellac, or liquid filler and varnish, or, not very likely, waxed. Wax will not do because it will not stand water or soap. But for any room where washing is not necessary, such as bedroom and hall, a waxed effect is good.

For a maple floor the first coat is of shellac, as oil will discolor this wood. After the shellac may come the wax. Or clear copal varnish, one or two coats, may follow the shellac, as varnish wears better.

The finishing of a hardwood floor—and by this is meant wood hard and soft—is not a difficult matter, any handy person may do it, but the re-doing of a soiled floor is something different, and then it requires an expert, to know just what is best to do. Wax soon discolors with wear, becomes dirty in spots, and must be removed and the part renewed with wax.

The proper care of a finished floor is also important, for even hard varnish will not stand all the abuse that sometimes is heaped upon a floor.

The varnish used should be that made particularly for a floor. It dries over night fit for walking on in the morning, yet it is sufficiently elastic not to ever crack.

As to the cost, there is no reason why the floor of a low cost house should not be as well finished as that of the mansion; the extra cost in the latter case comes from the scraping and smoothing, mostly, for which more may be paid than than an average good floor will cost, including the laying.

Floors, require a great deal of attention to keep them in proper condition. The public expect floors when done to last for years, without giving them any care, and the painter is blamed for poor wearing qualities. They forget that iron, marble, or wood will wear down. That being the case, what can be expected from a shellac or varnish gum?

Be sure that the floor is scraped perpectly smooth before any finish is applied. And use only the very best of material if the job is to be a good one.

—*Building Age.*

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

"Camouflage" doesn't pay in advertising. Don't call your cannon a bit of landscape. Be honest and gain the confidence of the public.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

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Reference Directory for Architects, Builders and Owners

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Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

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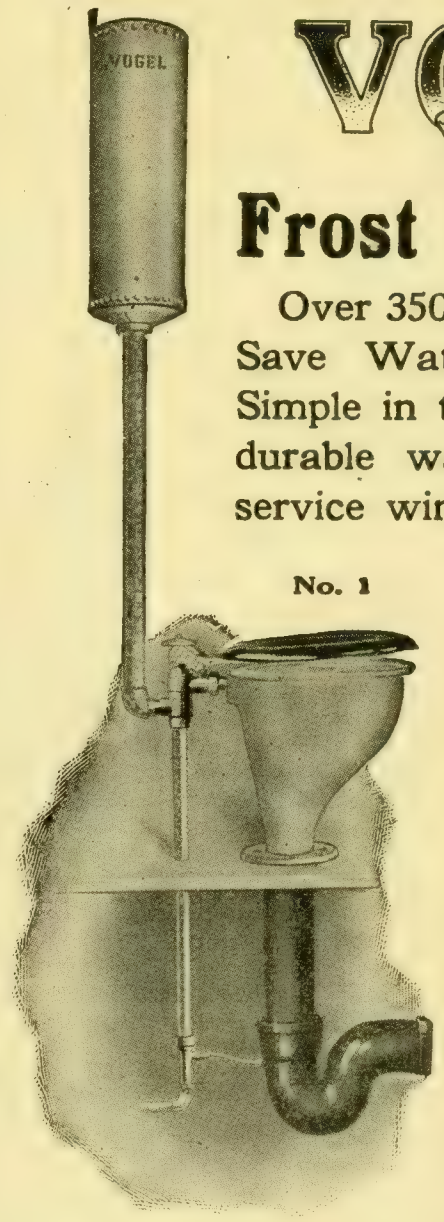
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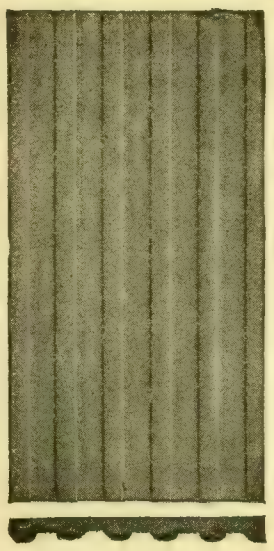
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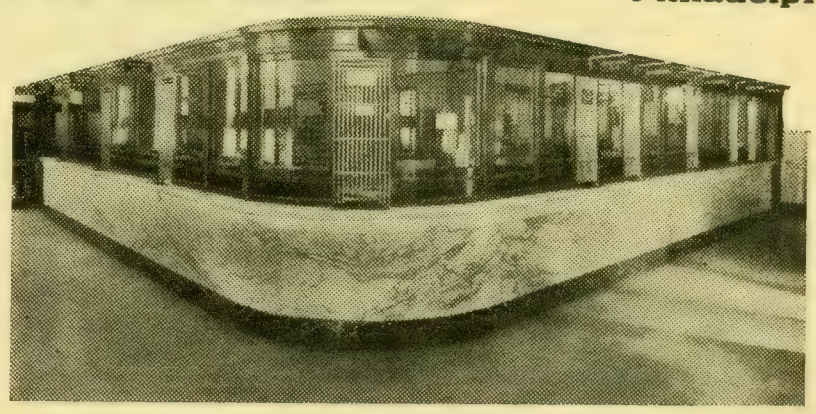
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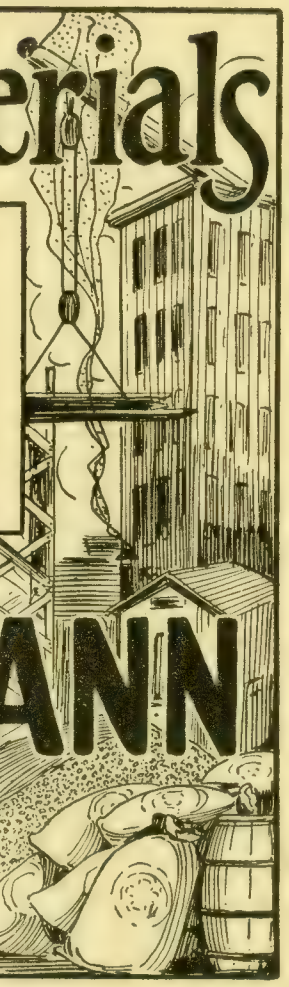


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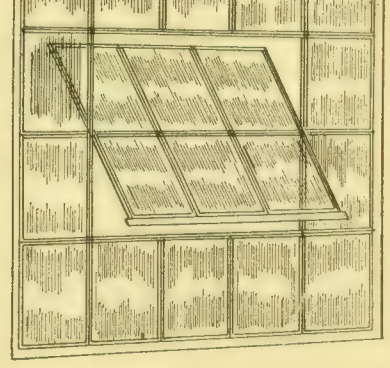


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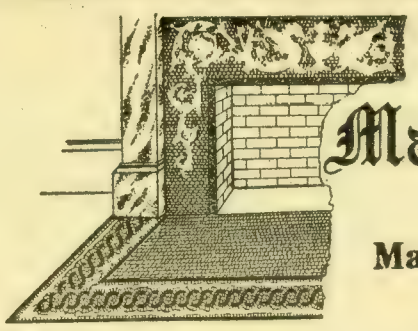
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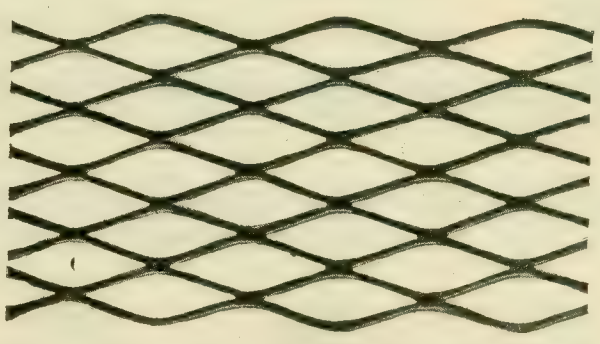
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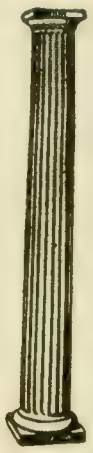
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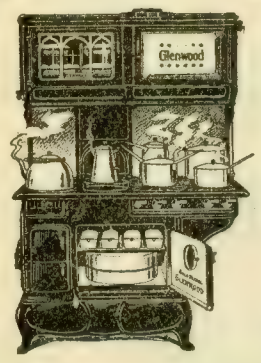
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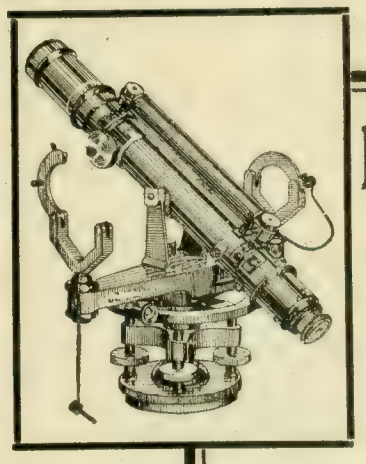


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As The Editor Sees It

"WE are in the midst of the biggest building boom the United States has ever known," says *The Industrial Digest,* New York. "Throughout the country there is bustling in lumber yards and brickyards, chisels are clanking in quarries, steel mills are rolling out structural forms, carpenters are banging away with their hammers, masons are wielding their trowels and painters their brushes; and more structures are being erected than at any previous time in the history of the nation.

"A boom—or a depression—in the consruction industry affects all other lines. Construction is one of the key industries of the nation. It uses the products of about one-fourth of all the persons in the country who are engaged in manufacturing. It consumes about nine-tenths of all the iron, copper, zinc and lead produced. Normally, it is estimated, construction absorbs about half the new capital accumulated in the country every year. It affects all other industries through its influence on rents. The great number of persons who engage in it form an important part of the consuming public.

"Construction has felt with unusually great weight the problems which afflict industry in general. It has experienced its full share of labor difficulties. It has been forced to deal with a scarcity of materials. It has been the subject of government inquiries, and has suffered from much malpractice on the part of those who engage in it. Therefore its sensational recovery at a time when most lines of business, though somewhat improved, are still languishing, is especially interesting.

"The building industry was one of the first to feel the post-war depression. A chart prepared by the Associated General Contractors, comparing the fluctuation of pig iron production with the variation in the number of building permits issued throughout the nation, shows that activity in building started to decline in 1920 eigh months before pig iron production began to sag. In fact, when the iron output started its downward movement the drop in construction was almost over. In November, 1920, the number of permits issued began to rise, and with occasional temporary relapses it has been on the upgrade ever since.

BUILDING BACK TO NORMAL

Comparative Square Foot Costs for Various Building Types

That building is back to normal basis is the declaration of Geo. S. Mills, of Toledo, after a survey just completed.

"They are not back to a basis of 1914 any more than 1914 was comparable to 1904," says Mr. Mills; "but the liquidation of building materials has been so complete that prices, except in a very few instances, are stabilized to a point that building can now go ahead, backed by the assurance that the investment, so far as price conditions are concerned, is safe and found for years to come."

The survey shows that a building in 1914 cost $1.50 per square foot space for ordinary concrete and steel buildings. During 1919 and 1920 costs were from $4 to $5 per square foot. Today the cost is approximately $2 a square foot.

During the last 18 years the cost of construction has shown a constant and steady rise, the chart prepared by Mr. Mills shows. In 1904, the cost per square foot was 78 cents, rising until 1917 when it reached $1.70. It then took a sharp jump, when building reached its peak. The present drop is the first to take place since 1904.

That the only chance for further reduction in building costs is through a drop in freight rates on materials is Mr. Mills' opinion, and he says that would be so small that it would hardly be appreciated.

The reason for the steadily increasing cost in building during the last 18 years is due to builders demanding more conveniences and better houses.—*The Constructor.*

BRICKLAYERS' SCHOOL

Cleveland to Revise Classes Under Joint Auspices

The Cleveland Association of Building Trades Employers has taken steps to re-

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vive the bricklayers' apprentice school which has lapsed during the previous year.

The school will be in charge of a joint committee of employers and union men, with assistance by the public schools. Evening sessions will be held with a paid instructor in general charge, but with assistance from practical bricklayers and mason contractors.

Apprentices will be paid a stipulated percentage of the journeymen's scale and will be advanced every half-year in the following steps:

First half year, 32 per cent.; second half-year, 36 per cent.; third half-year, 42 per cent.; fourth half-year, 48 per cent.; fifth half-year, 52 per cent; sixth half-year, 62 per cent.; seventh half-year, 70 per cent.; eighth half-year, 80 per cent.

EMPLOYMENT INCREASE

That there is an increase in employment in many major industries in the country, which has a disinct bearing on construction with reference to men and money, is the opinion of the U. S. Department of Labor. This is based on a survey of conditions for the month of June. All industries, except stone, clay, and glass products, show this increase. The decrease in these three is largely due to the seasonal lay-off in some centers in June. Along with the general increase, a rate of optimism pervading practically all industries is reported.

TO VISUALIZE PREVENTION

Big National Fire Prevention Exposition Will be Great Educational Treat

One of the biggest features of National Fire Prevention Week will be National Fire Prevention Exposition to be held beginning October 2 in New York. This exposition, endorsed by the National Association of Insurance Agents, the National Board of Fire Underwriters and other associations interested in educating the public to the common hazards and their elimination and in fire-retarding and fire-fighting devices and fire resistive materials, has also been endorsed by Mr. W. W. Orr, assistant secretary of the National Association of Credit Men and who is in charge of the fire prevention work of that big organiation.

Immediately following the meeting of the conferees on fire prevention in Washington, July 12, there was held a meeting of representatives of various organizations at which meeting Mr. E. A. MacKinnon, vice-president of the General Expositions Company, which will put on the exposition, explained its purpose and scope.

The great possibilities of the exposition, both as an educational feature and as a means of obtaining national fire prevention publicity, were seen by the men attending this meeting and their endorsemen was unanimous.

There will be displays of modern fire apparatus, or fire extinguishers of all kinds of safety devices, fire-safe building materials anl other appliances of interest to factory superintendents, manager and executives; business men; fire department officials; municipal authorities, and the public generally.

Plans are also being laid to have outdoor demonstrations, fire drills by children, tests of fire apparatus, contests between modern and old fire engines and other spectacular features.

It is conceded by those who have discussed the exposition that it should be productive of great good, especially if different days be set aside for special events, such as Children's Day, Governors' Day, Industrial Day, etc.

At the exposition will also be started a movement to form a National Junior Fire Brigade of boys who will aid in every way they can in suppressing and preventing fires.

ONE GENERAL CONTRACT BEST

Places Central Responsibility and is More Economical

The advantages of letting one contract for all parts of a building to a single general contractor, thus censoring responsibility, were explained by G. W. Buchholz to the chairman of the building committee in charge of a memorial school, who advised that they reserve the rights to sub-let any portion of the work. His letter follows:

"The awarding of separate contracts for the several portions of the work to different contractors is not often practiced, and where tried has usually proven unsatisfactory and uneconomical. The reason advanced for the application of this policy is that it is more economical. Experience has shown that that is not the case. While the sum total of the separate contractors often amount to less than the lump sum bid of a general contractor, the final and ultimate cost of the structure is greater owing to the great number of extras necessary to correlate the work of the several separate contractors. The project very often suffers on account of the lack of harmony, if not open hosility, between the subcontractors.

"General contractors of responsibility and reputation are disinclined to compete where the proper co-ordination of the project is outside their control. Owners, therefore, lose the benefit of high class competition."

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (alts.) to Apartments, 4414 Pine street, Philadelphia. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Warren W. Dickson, on premises. Carpentry, mill work, hardwood floors, partitions, new stairs, hot water and steam heat, electric light, plumbing, tile work, iron stairs. Owner will take sub-bids.

Church, Lombard and Van Pelt streets, Philadelphia. Architects, Druckenmiller & Williams, 1537 Chestnut street. Owners, Central Baptist Colored Church, on premises. Stone, brick and cut stone, 54x36 feet, slate roof, pine floors, steam heat, electric light, tile work, iron work. Architects taking bids due July 31st.

Residence, Overbrook, Philadelphia. Architects, Druckenmiller & Williams, 1537 Chestnut street. Owners, Edmonia C. Bradley, care of architects. Brick, 2½ stories, 100x38 feet, wing 26x18 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, iron work. Architects taking bids due August 29th.

Residences (20), Panama street, Nineteenth to Twentieth streets, $300,000. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, care of architect. Complete rebuilding. Architect taking bids due Aug. 1.

Residence (alts. and add.), and Store and Apartments, 4924-26 North Fifth street, Philadelphia. Architect, Sol. Kaplan, 929 Chestnut street, Philadelphia. Owner, H. G. Pollack, on premises. Brick, 3 stories, 20x75 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, general alterations to present building. Architect taking bids due July 27th.

Residence and Garage, Midvale and Stokley streets, Philadelphia. Architect, Carl P. Berger, Penn Square Building, Philadelphia. Owner, Carl Rumpp, Fifth and Cherry streets, Philadelphia. Hollow tile and stucco, 2½ stories, 50x27 feet, shingle roof, oak, pine and cement floors, hot water heat, electric light, tile work. Architect taking bids due July 31st.

Bank Building, 1510-1512 Chestnut street, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Corn Exchange National Bank, on premises. Stone, steel, brick and concrete, 6 stories, 40x138 feet, steam heat, electric light, tile and marble work. Plans in progress. Architect will be ready for bids in six weeks.

Apartment House, Northeast Corner Forty-seventh and Pine streets, $1,500,000. Architect, private plans. Owner, Clarence Siegel, Forty-seventh and Larchwood avenue, Philadelphia. Brick, steel, concrete and stone, limestone, alternate castone, 6 stories, 385x160 feet (90 apartments), concrete roof, concrete oak floors, hollow tile, safety treads, roof ventilators, metal weather strip, (8) elevators, waterproofing and dampproofing, iron work, iron stairs, hollow metal skylights, tile and marble work, metal lath, vapor heating, electric lighting, boiler house and laundry equipment. Plans ready for general contractors.

Rectory, Fifty-fourth and Diamond streets, Wynnefield, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Barbara's Roman Catholic Church, care of Rev. Joseph L. N. Wolfe, Wynnefield, Philadelphia. Stone, 2½ stories, 42x72 feet, slate roof. Revised plans in progress.

Bank Building, Rising Sun avenue and Magee street, Philadelphia. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, Lawndale National Bank, care of Charles P. Reinboth, 6443 Rising Sun avenue, Philadelphia. Brick and steel. Architect selected. Too early for details.

Store (Sales and Service) (alts.), 641 North Broad street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Harry T. Saunders, 31 South Eighteenth street, Philadelphia. General interior alterations. Plans in progress.

Residences (7), Fifty-seventh and Florence avenue, Philadelphia. Architect, private plans. Owners, Reed & Templeton, 1534 South Fifty-seventh street, Philadelphia. Brick, 2 stories, 15½x45 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owners will take sub-bids in a few days.

Sales and Service Building, 1620 Vine street, Philadelphia. Architect, M. A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Dr. B. R. Simons, 6901 Lincoln Drive, Philadelphia. Brick, 2 stories, 17x42 feet. Plans in progress.

Garage, Walnut Lane and Magnolia avenue, Philadelphia. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, name withheld. Brick, concrete and steel, 75x200 feet. Plans completed. Architect ready for bids.

Store and Apartments (alts. and add.), 800 North Sixty-third street, Philadelphia. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, Charles F. Stannard, on premises. Brick and stone, 3 stories. General alterations and addition. Plans in progress.

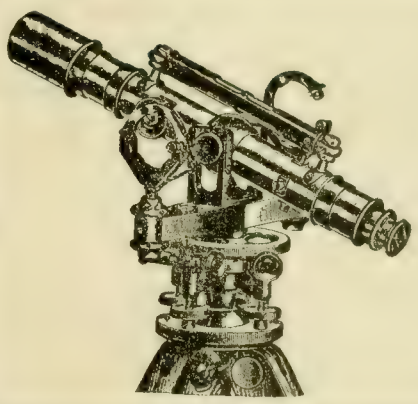
Seminary Building, Mt. Airy, Philadelphia. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Lutheran Theological School, care of Dr. Henry E. Jacobs, 7301 Germantown avenue, Philadelphia, Stone, 1 story and 2 stories. Preliminary plans in progress. Too early for details.

Manufacturing Plant, Germantown avenue and Tioga street, Philadelphia. Architect, private plans. Owners, Breyer-Sharpless, Inc., Eighth and Cumberland streets and 819 North Eleventh street, Philadelphia. Brick, steel and concrete. Plans ready for general bids.

Apartments (alts. and add.), Germantown and Chelten avenues. Architect, Benjamin Rush Stevens, 1737 Filzbert st., Philadelphia. Owner, M. B. Kohn, 52 West Chelten avenue, Philadelphia. Brick, 3-story rear 20-foot addition, slag roof, steam heat, electric lighting, general remodeling. Owners is taking general bids and sub-bids.

Residence, Roxborough, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Mrs. Henry C. Hays, care of architect. Hollow tile, stucco and steel, 1½ stories, 37x66 feet, tile and slag roof, oak, pine floors, dampproofing, iron work, metal lath (heating, lighting and plumbing reserved). Architect taking bids due July 31st.

Residence and Garage, Roxborough, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Henry F. Miller, care of architect. Hollow tile, stucco and steel, 1½ stories, 85x34 feet, wing, 34x23 feet, garage, 16x14 feet, tile and slag roof, oak, pine and cement floors, hollow tile, dampproofing, iron work,



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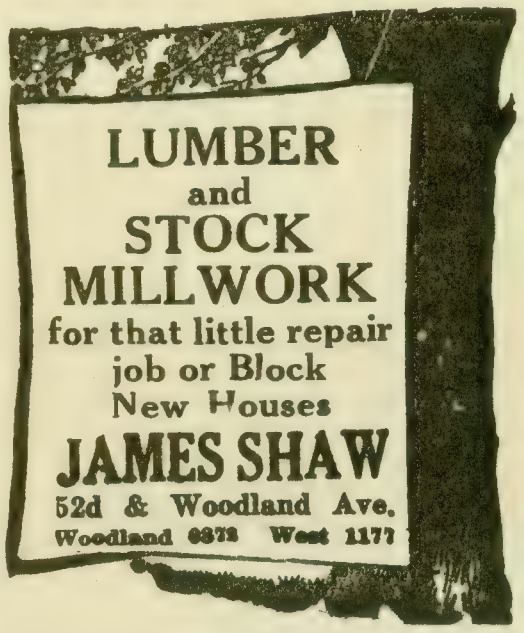
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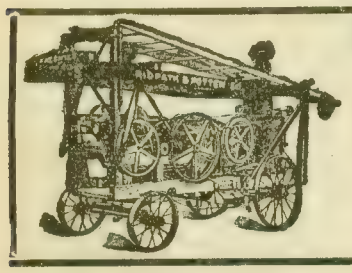
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metal lath (heating, electric light and plumbing reserved). Architect taking bids due July 31st.

Store (alts. and add.), 110 South Second street, Philadelphia. Architect, Frank E. Hahn, 1212 Chestnut street, Philadelphia. Owner, H. Fliegelman, on premises. Brick, 4 stories, 36x20 feet, slag roof, pine floors, metal ceilings, iron work, bond, hollow metal skylights, rolled steel sash,, marble work metal lath. Architect taking bids due July 27th at noon.

Garage, 1433-37 Parrish street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Louis J. Kolb, Tenth and Reed streets, Philadelphia. Brick, 1 story, 175x200 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, iron work. Architect taking bids due July 30th.

Building (alts. and add.), 3624 North Broad street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Howard B. Wilson, on premises. Brick, 1 story, 18x16 feet, slag roof, pine floors, hot water heat, electric light, iron work, plate glass. Architects taking bids due July 28th.

Factory, 1210-12-14 Wood street, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, J. A. and Harry Killpatrick, Bourse Building, Philadelphia. Brick, concrete and steel, 5 stories and basement. Architects taking bids due July 31st at noon.

Building (alts. and add.), 719 North Forty-first street, Philadelphia. Architect, Ralph N. Priest, 1627 Sansom street, Philadelphia. Owner, Atler Davis, care of architect. Carpentry, mill work, tin roof, composition floors, hardware, hot water heat, electric light, plumbing, metal ceilings, plastering, iron work. Architect taking bids.

Parochial School (alts. and add.), Twelfth and Jackson streets. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Epiphany Roman Catholic Church, on premises. Carpentry, mill work, plastering, heating repairs, electric lighting, plumbing. Architect taking bids.

Building, Eighteenth street and P. and R. R. R., Philadelphia. Engineers, Austin & Co., Bulletin Building, Philadelphia. Owners, A. H. Fox Gun Co., Eighteenth and Windrim avenue, Philadelphia. Brick, reinforced concrete, 1 story, 100x100 feet, slag roof, cement floors, steam heat, electric lighting, rolled steel sash. Engineers will build.

Stable (add.), Seventh and Indiana avenue, Philadelphia, $10,000. Architect, William F. Koelle, Twenty-sixth and Oxford streets, Philadelphia. Owner, Adolph Breuninger, 2332 North Seventh street, Philadelphia. Brick, 2 stories, 92x28 feet, slag roof, cement floors, plumbing, elevator, roof ventilators, hollow metal skylights (electric work reserved). Engineers will build.

Building (alts.), Northeast Corner Broad and Clearfield streets, $5,000. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owners, Cohn & Lamper, Thirteenth and Washington avenue. General alterations. Architect will build.

Store and Apartments (4) and Residences (10), Seventeenth and Pulaski avenue, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, A. Koch, 4284 Parkside avenue, Philadelphia. Brick, 2 stories, (10) 16x48 feet, and (4) 18x65 feet, tile roof, hardwood and composition floors, metal ceilings, flush bulks ,hollow metal skylights, tile and marble work, metal lath, hot water heat, electric lighting. Owner is taking sub-bids.

Residences (21) and Garages, and 11-Car Garage, Sixty-eighth and Greenway avenue. Architect, M. M. Boonin, 1506 N. Alden street. Owners, Berman & Guberman, 321 North Sixtieth street. Brick, 2 stories, 15x40 feet, garages in basement, garage, brick, 1 story, 48x44 feet, slag roof, hardwood, pine, mineral and cement floors, hot water heat, electric lighting. Guberman, 321 North Sixtieth street, is taking sub-bids.

Residences and Garages (39), Sixty-seventh avenue, Carlisle, Sydenham streets and Sixty-sixth avenue, Oak Lane. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, H. Wolfe, 736 West Moyamensing avenue. Brick, 2 stories, 16x80 feet, slag roof, hardwood and cement floors, hot water heat, electric light, tile work. Plans completed. Owner is taking sub-bids.

Residences (13), Seventeenth, Pulaski and Butler streets, $67,000. Architect, I. W. Levine, Victory Building, Philadelphia. Owner, Abe Koch, 4282 Parkside avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, oak, pine and cement floors, hot water heat, electric light. Owner will build.

Residences (6), Franklin street, South of Indiana avenue, $30,000. Architect, private plans. Owner, George R .Schwinn, Lindley avenue and Cavan street, Philadelphia. Brick, 2 stories, 14x28 feet, 11x12 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (2), Church lane, West of Magnolia, and Southwest Corner, $7,250. Architect, private plans. Owner, Charles Johnson, 2032 East Chelten avenue. Stone, 3 stories, 17x50 feet, slate roof, electric work, hot water heat. Owner will build.

Residences (22), Sixtieth and Oxford streets, Sixtieth and Turner streets, and Sixtieth and Columbia avenue, $130,000. Owners, Berkershoff & Wilson, 5156 Haverford avenue, Philadelphia. Brick, 2 stories, 20x61 feet, 18x61 feet, 16x38 feet, 16x30 feet, 12x7 feet, slag roof, hot water heat, electric light. Owner will build.

Garage, East side Marshall street, North of Hunting Park avenue, $5,000. Architect, private plans. Owner, Francis B. J. Branagan, Southwest Corner Marshall & Bristol streets. Brick, 88x15 feet, slag roof, cement floors, electric lighting. Owner will build.

Garage, East side J street, West of Kensington avenue, $4,000. Architect, private plans. Owner, Louis Kober, 3444 Kensington avenue, Philadelphia. Brick, 1 story, 17x146 feet, 17x130 feet, slag roof, cement floors, electric lighting. Owner will build.

Residences (20) and Residences and Garages (19), North and South sides Stewart street, East of Fifty-ninth street, $3,500 each. Owners, Klaus & Baxter, Fifty-eighth and Stewart streets, Philadelphia. Brick, 2 stories, 16x33 feet, slag roof, hot water heat. Owners will build.

Residences (10), McCallum street, South of Tulpehocken street, $60,800. Architect, private plans. Owner, Joseph Tyweill, 3327 Krail street, Philadelphia. Brick, 2 stories,

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16x44 feet, slag roof, hot water heat, electric light. Owner will build.

Shop, Office and Store, 228-30 North Twenty-first street, Philadelphia, $15,000. Architect, private plans. Owner, H. B. Johnson, Fifteenth and Spring Garden streets, Philadelphia. Brick, 2 stories, 36x158 feet, slag roof, electric lighting. Owner will build.

Residences (4), (3) Lincoln Drive, North of Sedgwick, $23,000 each, and (1) Allen's Lane, West of Emlen, $30,000. Architect, private plans. Owner, Don Peters, 515 Pelham Road, Philadelphia. Stone, 3 stories, 42x28 feet, and (1) 62x24 feet, 43x16 feet, slate roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (5), Northeast Corner York road and Lindley avenue, $28,000. Architect, private plans. Owner, B. Zorochoff, 3047 Weikel street, Philadelphia. Brick, 2 stories, 26x38 feet and 16x26 feet, 13x29 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (22), 1701-43 North Robinson street, Philadelphia, $6,000. Architect, private plans. Owner, William D. Wilson, 127 South Fifty-first street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting, tile work. Owner will build.

Residence, Northeast Corner Hawthorne and Deveraux streets, Philadelphia, $3,800. Architect, private plans. Owner, Frederick W. Dietrich, 727 Maple avenue, Philadelphia. Brick, 2 stories, 20x44 feet, slag roof, electric work. Owner will build.

Residence and Store (alts. and add.), 2013 North Twentieth street, $3,000. Architect, private plans. Owner, N. Leitman, 1597 North Fifty-second street, Philadelphia. Brick, 1 story, 12x16 feet, electric work. Owner will build.

Residences (4), West side Keystone street, South of Benner street, $2,500 each. Architect, private plans. Owner, O. H. Thompson, 6608 Marsden street, Philadelphia. Brick, 2 stories, 16x32 feet, pipeless heating. Owner will build.

Garage, East side J street, West of Kensington avenue, $3,000. Owner, Louis Kober, 3444 Kensington avenue, Philadelphia. Brick, 1 story, 96x17 feet, 56x17 feet, slag roof, cement floors, electric work. Owner will build.

Rooming House (alts. and add.), 4414 Pine street, $2,000. Architect, private plans. Owner, M. W. Dickson, on premises. Brick, 1 story, 10x11 feet, slag roof, pine floors. Owner will build.

Observation Building (construction and improvements), Second and Luzerne streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Philadelphia General Hospital, Department of Public Health, Director C. L. Furbush, 584 City Hall, Philadelphia. Concrete floors, metal lath, tile and marble, steel partitions, waterproofing, bond, terra cotta. Lowest bidders: Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, Philadelphia, Item A, $31,257; Item B, $27,458. George E. Evans, Inc., 109 North Thirteenth street, Philadelphia, Item A, $31,444; Item B, $28,094. Plumbing, Bullman Brothers, Fifth and Cumberland streets, $9,668. Electric, Baird-Osterhout Co., 2108 Walnut street, $1,558.

Sewers, Philadelphia. Low bidders on bids opened July 18th: American street, Luzerne to Rising Sun avenue, Joseph Lombardi, Lincoln Building, $10,503.35; American street, Chew street to 304 feet north, Joseph Lombardi, Lincoln Building, $1,544; Charles street, Harrison to Wakeling street, Joseph Lombardi, Lincoln Building; Delphine street, Third street to American street, A. Silvestri, Lincoln Building, $2,409.44; Eastburn avenue, Wister street to Gerry street, F. T. Pascelli, $4,089.50; Fourth street, Chew street to Grange street, E. Leva, 3851 North Tenth street, $2,511.60; Fourth street, Grange street to Nedro street, $4,392.15, and Tulip street, Cottman to Friendship street, $3,627.70, E. Leva, 3851 North Tenth street; Gerry street, Sixty-sixth avenue to Eastburn street, Joffola & Zinner, 1203 Tree street, $1,710.75; Grange avenue, Fourth streeet to Third street, C. De Mayo, 826 Fitzwater street, $7,960.38; Henley street, Manheim street to Hansberry street, Joseph Moss, 1052 Wakeling street, $4,275.70; Marshall street, Bristol street to Cayuga street, A. A. Pastori, 5904 Woodland avenue, $2,547.50; Roosevelt Boulevard, Summerdale to Oxford street, $9,889.50, Schiller street, Thompson to Richmond street, $2,763.90, W. H. Yettman, Jr., Lincoln Building; Second street, Chew to 333 feet north, $1,928.04, and Twelfth street, Thompson street to Columbia avenue, $28,150, M. Mattie, 263 Simpson street, Philadelphia.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store (alts. and add.), Forty-fifth and Pine streets, Philadelphia, $4,000. Architect, private plans. Owner, Max Willig, 407 Lincoln Building, Philadelphia. Brick, 4x50 feet add., slag roof, concrete floors, electric light, flush bulks, plate glass. Contract awarded to H. Platt & Co., 1701 Chestnut street.

Residences (4), $22,000; **(1)**, $8,000, Fifty-second and Greenway avenue. Architect, Mahlon H. Dickinson, 6151 Market street,

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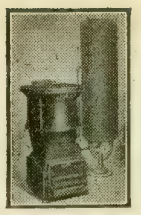
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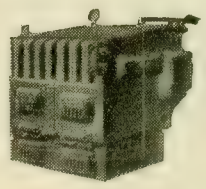
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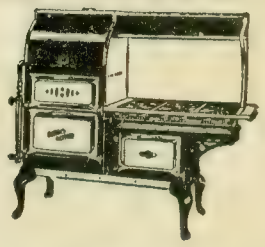
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Philadelphia. Owner, Mary Kerkowitz, on premises. Brick, 2 stories, (4) 17x42 feet, (1) 20x43 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Harry Platt Co., 1701 Chestnut street.

Residence (alts. and add.), 1923 Spruce street, Philadelphia. Architect, Leroy B. Rothchild, 1225 Sansom street. Owner, Mendes Solis, 133 South Twelfth street, Philadelphia. Brick fire tower, 3 stories, 14x10 feet, slag roof, electric light, plumbing, tile work, painting, glazing. Contract awarded to John Schnabel, Inc., Denckla Building.

Store (alts.), 108 South Eighteenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Miss Frances, on premises. General alterations. Contract awarded to William R. Dougherty, 1610 Sansom street.

Office and Sales Building, Northwest Corner Thirtieth and Walnut streets, Philadelphia. Architects, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, Westinghouse Electric Co., Widener Building, Philadelphia. Brick, steel, limestone and granite, 10 stories, 191x95 feet, slate and tile roof, concrete floors, safety treads, roof ventilators, waterproofing, floor hardener, bond, rolled steel and kalamein doors, rolled steel sash, tile, marble and terrazzo. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore, Md.

Maintenance and Repair Building, Southwest Corner Eleventh and Indiana avenue, $200,000. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, J. W. Vandegrift, Mervine and Cambria streets, Philadelphia. Brick, steel and cut stone, 2 stories and basement, 226x111 feet, slag roof, concrete floors, waterproofing, floor hardener, rolled steel sash and skylights, bond, rolled steel and kalamein doors (plumbing, lighting, heating, elevators and dumb waiters reserved). Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Residence, Awbrey and East Washington Lane, Germantown, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Algernon Evans, care of architect. Stone, 2½ stories, 58x33 feet, shingle roof, oak and pine floors, hot water heat, electric lighting, tile work, metal lath, iron work. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy.

Residence, Awbrey and East Washington Lane, Germantown, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Mrs. Jonathan Evans, care of architect. Stone, 2½ stories, 45x34 feet, shingle roof, oak and pine floors, electric light, metal lath, tile work (heating reserved). Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy.

Building (alts.), 110 South Eighteenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, S. A. Wilson & Co., on premises. Brick, cut stone, carpentry, mill work, hardware, plastering, painting, electric work, bond, iron work, steel work. Contract awarded to E. H. Keefer & Son, 1321 Rodman street.

Arcade Building, Broad below Erie avenue, $23,000. Architect, W. Frisbey Smith, 1345 Arch street, Philadelphia. Owners, Beidler & Rink, 2810 Germantown avenue. Brick and cut stone, 2 stories, 55x150 feet, slag roof, oak and pine floors, steam heat, electric light, metal lath, tile work, metal bulks, iron work, plate glass. Contract awarded to A. N. Tatro, 1345 Arch street, Philadelphia.

Store and Residence (alts. and add.), 2327 Ridge avenue, $6,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Martin Shapiro, on premises. Brick, 1 and 2 stories, 35x12 feet, tin roof, oak and pine floors, hot water heat, electric light, metal ceilings, bond, hollow metal skylights, rolled steel sash, tile and marble. Contract awarded to J. M. Shankley, 1961 North Stanley street.

Wards K and M (alts.), Thirty-fourth and Spruce streets, Philadelphia, $10,500. Architect, A. H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Hospital for University of Pennsylvania, on premises. Painting, glazing, carpentry, mill work, plastering, hardware, plumbing, tile and marble (heating and lighting reserved). Contract awarded to Ketcham & McQuade, 1029 Brown street.

Stores and Offices (3), Frankford avenue and Foulkrod street. Architects, Lachman &

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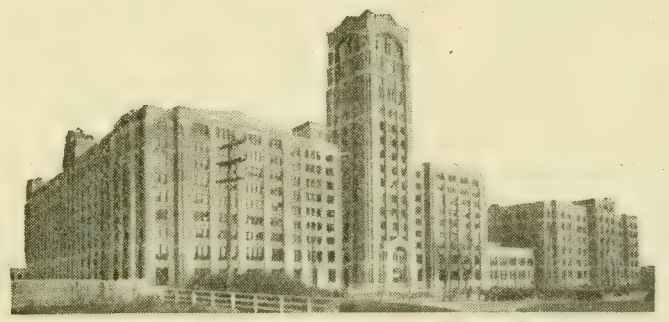
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Murphy, Drexel Building, Philadelphia. Owners, Gentry & Otto, 4770 Frankford avenue. Brick, 2 stories and basement, slag roof, hardwood, cement and pine floors, hot water heat, electric light, metal bulks. Contract awarded to George W. Corssleu, 4661 Paul street, Philadelphia.

Sales Room, Thirty-second and Spring Garden streets, Philadelphia. Architect, private plans. Owners, Wills Sainte Claire Co. of Pennsylvania, 2033 Market street. Brick and steel, 1 story, 150x113 feet, slag roof, cement floors. Contract awarded to John N. Gill Const. Co., Otis Building.

House, Church and American streets, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Christ Church Neighborhood House, on premises. Brick, terra cotta, cut stone and steel, additional story, slag and promenade tile roof, oak and maple floors, copper skylights, waterproofing, iron work. Contract awarded to J. Myers & Sons Co., Witherspoon Building.

Factory, Richmond and Tioga streets, Philadelphia, $46,500. Architect, Ralph E. White, Pennsylvania Building, Philadelphiai. Owner, Gilbert Spruance, 312 North Third street, Philadelphia. Brick and cut stone, 2 stories, 138x62 feet, slag roof, maple, cement and composition floors, electric light, metal lath, rolled steel sash, hollow metal skylights, rolled steel doors, iron work (heating and elevators reserved). Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Store Building, 1021 Locust street, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Frank L. Polites, Crozer Building, Philadelphia. Limestone front and brick, 2 stories, 16x61 feet, slag roof, maple floors, vapor heat, electric lighting, metal lath, tile, marble and terrazzo, bond, flush bulks, iron stairs. Contract awarded to George P. Clayton, 1817 North Twentieth street.

Residence, 186 East Huntingdon street, and **Store (alts. and add.)**, 2552 Kensington avenue, Philadelphia. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owner, Louis Snyder, 2552 Kensington avenue, Philadelphia. Brick, 2 stories, 20x50 feet, slag roof, oak and pine floors, tile and marble, iron work (heating, lighting and plumbing reserved), brick 1-story rear add. to store, 10x20 feet. Contract awarded to Birkelbach Co., 4608 Richmond street.

Store and Office Building, Northwest Corner Eighth and Sansom streets. Architect, H. H. Kline, Penn Square Building, Philadelphia. Owner, M. Rosnov, 719 Sansom street, Philadelphia. Brick, 3 stories, 19x43 feet, slag roof, cement floors, safety treads, hot water heat, electric light, tile and marble, hot water heat, electric light, tile and marble, iron work. Contract awarded to Ayers Concrete Products Co., Heed Building.

Apartments (alts.), 403 South Forty-second street, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, Thomas Harwood, on premises. General alterations, hardwood floors, electric light, changing partitions, plastering, painting, carpentry, mill work, glazing. Contract awarded to J. M. McCall, 402 South Forty-third street.

Store (alts.), 2540-42 Kensington avenue, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Max Moskovitz, on premises. Brick, carpentry, mill work, slag roof, pine and oak floors, tile and terrazzo, plastering, metal lath, painting, glazing, iron work. Contract awarded to S. B. Cerruti, 214 South Second street.

Store (alts.), Arrott and Oakland streets, Philadelphia. Architect, private plans. Owners, Mardiros Keoscian, 1301 Arrott street, Philadelphia. Excavation, steel work, plumbing, plastering, carpentry, painting, electric work, metal ceilings, flush bulks. Contract awarded to A. S. Shafer, 2122 South Nineteenth street, Philadelphia.

Tea Room (alts. and add.), 215 South Fifteenth street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Miss Elizabeth B. Owens, on premises. General alterations and additions. Contract awarded to S. B. Cerruti, 214 South Second street.

Residence (alts. and add.), 1611 Diamond street, $7,500. Owner, M. Abbott, on premises. Private plans. **Stores and Apartments (alts.)**, York road and Nedro street. Owner, name withheld. Private plans. General alterations. Contracts awarded to Albert E. Dunlap, 7123 Oak avenue, Oak Lane, who is taking sub-bids.

Display Room and Garage, 6117 Ridge avenue, Philadelphia. Architect, private plans. Owner, C. R. Vandegrift, on premises. Brick, 1 story, 128x21 feet, slag roof, cement floors, steam heating, electric light, metal lath, hollow metal sash, metal ceilings, iron work. Contract awarded to William H. Eddleman & Son, 453 Green lane, Roxboro, Philadelphia.

Church (alts. and add.), Rockland and Mascher streets, Philadelphia, $20,000. Architect, J. Naschold, 5224 North Second street, Philadelphia. Owners, Tabor Evangelical Lutheran Church, on premises. Brick, stone and cut stone, 1 story, 36x27 feet, slate roof, pine floors, terra cotta, iron work, metal lath (heating and lighting reserved). Contract awarded to George Kessler Cont. Co., 1933 North Marvine street.

Building (alts. and add.), 1316 Vine street, Philadelphia. Architect, Max A. Bernhardt, 727 Walnut street, Philadelphia. Owner, Dr. B. R. Simons, 6901 Lincoln Drive, Philadelphia. General alterations and additioin. Contract awarded to Frank Lucci, 1603 Ellsworth street.

Contract 590, Queen Lane Pumping Station, Philadelphia, $68,350. Owners, City of Philadelphia, Department of Public Works, Bureau of Water, City Hall, Philadelphia. Furnishing coal and ash apparatus at above named station. Contract awarded to Robbins Cont. Co., 1137 North Front street.

Residences and Stores (3), North side Longshore street, West of Hegerman street, Philadelphia, $20,000. Architect, private plans. Owner, Charles Sweeney, 4846 Roosevelt Boulevard, Philadelphia. Brick, 2 and 1 stories, 17x60 feet, 17x30 feet, and 2 stories, 15x60 feet, slag roof, oak and pine floors, electric light. Contract awarded to A. E. Barnes & Co., 2044 East Clementine street.

Office, 3301 Walnut street, Philadelphia, $14,000. Architect, private plans. Owners, University of Pennsylvania, S. E. Hutchinson, chairman Building Committee, 425 Walnut street, Philadelphia. Stone and brick, 1 story, 20x107 feet, slag roof, steam heat, electric lighting. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Residence (alts. and add.), Southeast Corner Catharine and Delhi streets, $3,275. Architect, private plans. Owner, P. Carracello, 933 Catharine street, Philadelphia. Brick, 1 story, 15x9 feet, slag roof, yellow pine floors. Contract awarded to Cerasoli & Scurci, 1709 South Eleventh street.

Residence (alts. and add.), 552 East Leverington avenue, $4,900. Architect, private plans. Owner, Peter Liebert, on premises. Brick, first story add., 12x18 feet, and second story add., 18x23 feet, slag roof, pine floors. Contract awarded to E. L. Cuthbertson, 334 Roxboro avenue.

Store and Apartment (alts.), 4166 Girard avenue, $4,000. Architect, private plans. Owner, Michael Imber, 3964 Poplar street, Philadelphia. General interior alterations. Contract awarded to Joseph Eskin, 4106 Westminster avenue.

Building (add. and alts.), 3354 North Front street, Philadelphia, $2,000. Architect, private plans. Owner, Leo J. Schink, on premises. Brick, 1 story, 1312 feet, slag roof, yellow pine floors. Contract awarded to A. E. Barnes & Co., 2044 East Clementine street.

Shop, West side Forty-second street, South of Woodland avenue, $11,000. Architect, private plans. Owners, Pennsylvania Music Lithograph Co., Thirteenth and Appletree streets. Brick, 1 story, 50x85 feet, slag roof, electric work, pine floors. Contract awarded to F. Crompton & Brother, 4614 Oakland street.

Residences (2), Duncan street, West of Pierce street, $4,500 each. Architect, private plans. Owner, S. Dynick, Duncan street,

Philadelphia. Brick, 2 stories, 16x56½ feet, slag roof, electric lighting. Contract awarded to C. Lakowicz, 4655 Torresdale avenue.

Armory (alts.), Twenty-third and Chestnut streets, Philadelphia, $20,000. Architect, private plans. Owners, First City Troop of Philadelphia, on premises. Metal lath, plastering, general alterations. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Apartments (alts.), 828-30 East Allegheny avenue, $5,000. Architect, private plans. Owner, F. J. Doyle, 859 East Allegheny avenue, Philadelphia. Hot water heat, electric work, tile work, plate glass, metal lath, bulk windows, plastering. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Residence, Southeast Corner Salmon and Haworth streets, $4,900. Architect, private plans. Owner, William Patten, 2817 Kirkbride street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, electric lighting. Contract awarded to F. Sikerski, 4478 Edgemont street, Philadelphia.

Residences (2), Ditman street, South of Comly street, $4,500 each. Architect, private plans. Owners, Charles Shaffer & Son, 3426 Comly street. Brick, 2 stories, 14x36 feet, slag roof, hot air heat, electric light. Contract awarded to S. Wilmer, 3211 Comly street, Philadelphia.

Residence, West side Montour street, South of Cottman street, $4,000. Architect, private plans. Owner, William V. Stroup, 2110 East Ella street, Philadelphia. Frame, 1 story, 34x36 feet, electric lighting. Contract awarded to Alex. Base, 5547 Linmore street, Philadelphia.

Residence and Store (alts.), 222 South Fifteenth street, Philadelphia, $4,300. Architect, private plans. Owner, Dr. John Fisher, Northeast Corner Nineteenth and Pine streets, Philadelphia. Hot water heating, plumbing, electric work, carpentry, mill work. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Building (alts.), 2200 West Tioga street, Philadelphia, $4,000. Architect, private plans. Owner, George R. Goodman, 2320 West Tioga street, Philadelphia. General interior alterations. Contract awarded to Joseph S. Tomlinson, 1710 North Venango street.

Theatre (alts.), 334-36 South street, $4,000. Owners, Southwark Amusement Co., on premises. General interior alterations. Contract awarded to Kapper Const. Co., 2144 South Tenth street.

Garage, East side D street, North of Ontario street, $4,000. Architect, private plans. Owners, Ontario Dyeing Co., D and Ontario streets, Philadelphia. Brick, 1 story, 27½x60 feet, slag roof, cement floors, steam heat, electric work. Contract awarded to F. Crompton & Brother, 4614 Oakland street.

Residence, North side Loughlin street, East of Rising Sun avenue, $3,300. Architect, private plans. Owner, Walter Fredricks, Church lane, East of Rising Sun avenue. Frame, 1 story, 24x28 feet, hot air heat, electric light. Contract awarded to C. C. Campbell, 6419 Bingham street, Philadelphia.

Garage, 419-21 Titan street, Philadelphia, $3,050. Architect, private plans. Owner, Joseph Hamelfinger, 422 Manton street, Philadelphia. Brick, 1 story, 30x56 feet, slag roof, cement floors. Contract awarded to Girard Realty & Cont. Co., 149 South Fourth street.

Building, 252 North Marvine street, Philadelphia, $2,500. Architect, private plans. Owner, George L. Bingham, 6039 Walnut street, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, pine floors, electric work. Contract awarded to Warren Brothers, 1113 Cherry street, Philadelphia.

Residences (5), Warnock street, South of Windrim, and Southeast Corner, $26,000. Architect, private plans. Owner, E. McMaster, 4933 North Fifth street, Philadelphia. Brick, 2 stories, 16x38 feet, 17x32 feet, slag roof, electric work. Contract awarded to Louis Braennig, Jr., 4933 North Fifth street.

Warehouse, 426 North Franklin street, Philadelphia, $4,000. Owners, Brown & Bailey, Willow and Franklin streets, Philadelphia. Brick, 1 story, 24x67 feet, slag roof, cement floors, electric work. Contract awarded to William Myers & Co., 216 Quarry street, Philadelphia.

School (alts.), Northwest Corner Forty-fourth and Aspen streets, $10,000. Architect, private plans. Owners, Board of Education, Nineteenth street above Chestnut, Philadelphia. Brick, 1 and 2 stories, 20x16 feet, plumbing, cement floors, slag roof, sanitary equipment. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

Residence, 648 East Shawmont avenue, Philadelphia, $5,000. Architect, private plans. Owner, Andrew J. Wilson, on premises. Frame, 2 stories, 26x36 feet, electric lighting. Contract awarded to A. J. Maken, 201 Levering street, Philadelphia.

Residence and Store (alts. and add.), 623 South street, $5,000. Architect, private plans. Owners, Jacob Brothers Co., 133 South Twelfth street, Philadelphia. Brick, 2 stories, 16x12 feet, slag roof, electric lighting. Contract awarded to Baley & Stucke Building Co., 418 West Fifth street, Plainfield, N. J.

Laundry (add.), 1704-12 North Fawn street, Philadelphia, $15,000. Architect, private plans. Owners, Forrest Laundry, Camac street and Columbia avenue, Philadelphia. Reinforced concrete, third and fourth floors, 53x48 feet, slag roof, cement floors, steel sash. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Residence, North side Levick street, West of Hasbrook street, $9,600. Owner, William Vogt, 6320 Rising Sun avenue, Philadelphia. Frame, 1 and 3 stories, 12x5 feet and 40x32 feet, hot water heating, electric lighting, oak and pine floors, tile work. Contract awarded to C. C. Campbell, 6419 Bingham street, Philadelphia.

Residence and Store (alts.), Southwest Corner Tenth and Girard avenue, $6,000. Architect, private plans. Owner, Harry Leidner, on premises. Carpentry, mill work, electric work, bulk windows, plastering. Contract awarded to Charles Belinsky, 2630 South Ninth street, Philadelphia.

Fence Wall, East side Meadow street, South of Tasker street, $7,700. Architect, private plans. Owners, W. J. McCahan Sugar Refining Co., Tasker Street Wharf. Brick, 378 feet long. Contract awarded to William G. Uhlers Sons, 1909 McKean street.

Residences (2), 1218-20 South Alder street, $3,000 each. Architect, private plans. Owners, Mrs. L. Mannella and Betty Syaniglio, care of builder. Brick, 2 stories, 15x23 feet, 12x15 feet, slag roof, pine floors. Contract awarded to E. D. Sante, 1616 South Alder street, Philadelphia.

Residence, East side Solley street, East of E street, $6,200. Architect, private plans. Owner, Alexander Scott, Fox Chase, Philadelphia. Frame, 2 stories, 24x31 feet, hot water heat, electric light. Contract awarded to Harold Stout, Cheltenham, Philadelphia.

Building (alts. and add.), 109 East Tabor road, Philadelphia, $6,000. Architect, private plans. Owner, Frank Felton, Jr., on premises. Brick, 1 story add., 12x17 feet, slag roof, hot water heat. Contract awarded to John L. Bushnell, 2146 East Norris street.

Residences (4), Seventeenth and Pulaski avenue, Philadelphia, $43,000. Owners, J. Baxter and Fannie Egnal, Fourth and Pine streets, Philadelphia. Brick, 3 stories, 42x29½ feet, 18x32 feet, 13x12 feet, 16x33 feet, 11x13½ feet, 16x36 feet, 11x13½ feet, slag roof, oak and pine floors, electric light, hot water heat, tile work. Contract awarded to Ike Wolk, 335 Wolf street, Philadelphia.

Garage, South side Roberts avenue, West of Wayne avenue, $50,000. Architect, private plans. Owner, H. F. Newton, 1524 Chestnut street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, hot water heat, electric light, steel sash, skylights. Contract awarded to Carr & Courtney, Twenty-third and Green streets, Philadelphia.

Church, Northwest Corner Forty-second and Wallace streets, Philadelphia, $35,000. Architect, private plans. Owners, Mt. Olivet Baptist Church, on premises. Stone and brick, 2 stories, 70x113 feet, slate roof, electric light. Contract awarded to J. F. Trent, 2041 Master street, Philadelphia.

Residences (6), East side Seventy-second street, North of Gray's avenue, and Northeast Corner, $25,000. Architect, private plans. Owner, Anna Levin, 2018 North Sixth street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heat, electric light. Contract awarded to Levin Brothers, 2018 South Sixth street, Philadelphia.

Residence and Garage, 6211 Wayne avenue, $25,000. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, A. D. Seideman, 121 North Seventh street, Philadelphia. Stone, 2½ stories, 40x36 feet, 15x10 feet, slate roof, oak and pine floors, hot water heat, electric lighting, tile work. Contract awarded to Alex. Laub, 4622 North Broad street, Philadelphia.

Bakery, Ridge and Sedgley avenues, Philadelphia. Architect, private plans. Owners, Atlantic & Pacific Tea Co., Broad and Somerset streets. Brick and concrete, 2½ stories, slag roof, cement floors, electric lighting. Contract awarded to Turner Const. Co., 1713 Sansom street.

Residence and Store (add.), 6022 Market street, Philadelphia, $4,579. Owner, Mayer Caplan, on premises. Brick, 1 story add., 15x35 feet 6 inches, slag roof, electric lighting. Contract awarded to Frank N. Percival, 6229 Market street.

Residence, East side Oakmont street, South of Verree road, $4,000. Architect, private plans. Owner, Mr. Place, 326 Westmoreland street, Philadelphia. Brick and frame, 2 stories, 24x32 feet, pipeless heating, electric lighting. Contract awarded to S. H. Beamer, 2535 South Pershing street, Philadelphia.

Warehouse (alts.), 2421-23 West York street, Philadelphia, $3,500. Architect, private plans. Owner, John O'Hara, 1216 Sansom street, Philadelphia. General interior alterations. Contract awarded to Thomas Morris, 1853 North Judson street, Philadelphia.

Residence (alts. and add.), 313 North Sixty-fifth street, $2,500. Architect, private plans. Owner, Andrew A. Scott, on premises. Brick, 1 story add., 14x12 feet, general alterations. Contract awarded to James R. Scott, 245 North Sixty-fifth street, Philadelphia.

Residence and Store (alts.), 409-11 South Twentieth street, $3,000. Architect, private plans. Owner, John P. Butler, on premises. General interior alterations. Contract awarded to Frank J. Smith, 1029 Mt. Vernon street.

Residence (alts. and add.), Northwest Corner Fifty-fifth and Larchwood avenue, $2,500. Architect, private plans. Owner, Rahn Dudelson, on premises. Brick, 1 story, 16x9 feet, slag roof, electric work. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

Residence, 2839 Ruth street, Philadelphia, $2,315. Architect, private plans. Owner, Henry Denyhur, on premises. Brick, 2 stories, 16x19½ feet, slag roof, general altera-

tions. Contract awarded to Cevil Hodgens, 3032 Emerald street, Philadelphia.

Residence and Store (add. and alts.), 3400 North Fifth street, $3,000. Owner, Abraham Feld, on premises. Brick, 1 story, 20x22 feet, slag roof, pine floors, electric work. Contract awarded to B. Arrow, 992 North Seventh street, Philadelphia.

Building (alts.), 502 North Eleventh street, $3,000. Owner, Adolph Kessler, on premises. General interior alterations. Contract awarded to Hearst & Karlace, 6353 Jefferson street.

Pennsylvania Construction News

Store and Apartments, Ambler, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Oscar H. Stillwagon, Ambler, Pa. Brick, 2 stories, 20x90 feet, slag roof, hardwood floors, hot water heat, electric light, plumbing, tile work, metal bulks. Owner is ready for bids.

High School, Jenkintown, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School Board, Jenkintown, Pa. Lowest bidders: Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia, $139,900; Moore & Co., Nineteenth and Cherry streets, Philadelphia, $146,429. Plumbing, Schaeffer & Co., Jenkintown, Pa., $5,051. Electric, Baird Osterhout Co., 2109 Walnut street, Philadelphia, $3,950. Steam heating and ventilating, J. H. Hutchinson, 1020 Callowhill street, Philadelphia, $20,777. Hot air and ventilating, American Heating & Ventilating Co., 200 North Fifteenth street, Philadelphia.

Memorial Cottage, Elizabethtown, Pa. Architect selected, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Dauphin County Memorial, Masonic Home, Elizabethtown, Pa. Stone, 3 stories. Preliminary plans drawn. Too early for details.

Schools (3), Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, School Board, Lancaster, Pa. Miscellaneous alterations, plumbing. Plans in progress.

Stadium and Gymnasium, Lewisburg, Pa., $500,000. Architects, Carrere & Hastings, 52 Vanderbilt avenue, New York. Owners, Bucknell University, Lewisburg, Pa. Brick, steel, stone. Plans in progress.

Residences (2), South Ardmore, Pa. Architect, private plans. Owners, Reed & Templeton, 1534 South Fifty-seventh street, Philadelphia. Frame and stucco, 2½ stories, 22x26 feet, shingle roof, hardwood floors, hot water heat, electric lighting. Owners are taking sub-bids.

Residences (2), Lancaster, Pa. Architect, H. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, M. T. Garvin, care of architect. Brick, 2½ stories, 20x28 feet, slate roof, hardwood floors, hot water heat, electric light. Architect ready for bids.

Community Garage, rear 36 North Mary street, Lancaster, Pa. Architect, private plans. Owner, Mary E. Barton, 36-38 North Mary street, Lancaster, Pa. Brick, 1 story, 54x37 feet, slag roof, concrete floors, steam heat, electric light, concrete floors, roof ventilators. Owner ready for bids.

Business Building, Tenth street, Harrisburg, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, Raub Supply Co., 315 Chestnut street, Harrisburg. Brick, steel, fireproof, 3 stories, 112x65 feet, hardwood floors, electric light, (2) freight elevators, roof ventilators, rolled steel sash. Owners sub-letting.

Residence, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Penrose Ruhl, Lititz, Pa. Brick, 2½ stories, 30x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due soon as possible.

Banking House, Mahanoy City, Pa. Architects, Tilghman Moyer Co., Allentown, Pa. Owners, Merchants' Banking Trust Co., Mahanoy City, Pa. Brick and steel, 1 story, mezzannie and basement, 125x25 feet, slag or asphalt roof, cement floors, hollow tile, waterproofing, bond, hollow metal skylights, rolled steel sash, marble work, metal lath. Architect taking bids due July 27th.

Pennsylvania Contracts Awarded

Convent, Avoca, Luzerne County, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Mary's Roman Catholic Church, care of Rev. H. P. Burke, Avoca, Pa. Brick, terra cotta, cut stone and steel, 2½ stories, 74x38 feet, slate roof, composition and pine floors, steam heating, electric light, metal lath, tile, marble work, hollow metal sash, kalamein doors, bond, floor hardener, iron work and stairs. Contract awarded to John J. Gibbons, 722 Grove street, Avoca, Pa.

Church and Parish House (alts.), Berwyn, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, St. Monica's Roman Catholic Church, care of Rev. John G. Carey, Berwyn, Pa. Stucco, 18x20 feet, slate roof, carpentry, mill work, metal lath, painting, glazing, hardware, iron work. Contract awarded to J. Myers & Sons Co., Whitherspoon Building, Philadelphia.

School, West Lampeter, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, West Lampeter Township School Board, care of architect. Brick, 1 story and basement, 177x100 feet, composition roof and floors (heating, electric work and plumbing reserved), tile and marble work, rolled steel skylights, roof ventilators, dampproofing. Contract awarded to B. Frank Bachman, Woolworth Building, Lancaster.

Store and Auditorium, Bywood road, 160 feet West of West Chester pike. Architect, private plans. Owner, Terence Smith, 3819 Hamilton street, Philadelphia. Brick and steel, 2 stories and basement, 45x100 feet, slag roof, pine and maple floors, hot water heating, electric light. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Residence (alts. and add.), Ardmore, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, W. B. Franklin, Ardmore, Pa. Frame and stucco, 1 story, 24x12 feet, slag roof, oak floors, plastering, painting, hardware, electric extension. Contract awarded to Charles C. Pace, Merion, Pa.

Store, 25 North Third street, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, E. G. Hoover, 23 North Third street, Harrisburg, Pa. Stone, granite, 3 stories, 20x60 feet, tile and tin roof, cork tile, electric light, metal lath, rolled steel sash and skylights. Contract awarded to H. A. Hipple, Harrisburg, Pa.

Bank, Valleyview, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Valley View National Bank, care of architect. Terra cotta, tile and stucco, 1 story, 32x65 feet, slate roof, concrete and marble floors, steam heat, electric light, metal lath, tile work. Contract awarded to Gordon Nagle, Pottsville, Pa.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Susquehanna County, R-12, Bridgewater and Dimock Townships, $174,478.35. Contract awarded to William C. Evans, Ambler, Pa.

Residence and Garage, Jenkintown, Pa., $7,800. Architect, private plans. Owner, J. A. Albrecht, care of builder. Stone, brick and mineral stucco, 2½ stories, 25x36 feet, slate roof, hardwood and composition floors, hot water heat, electric light, tile work, iron work, plastering, painting, glazing. Contract awarded to Penn Building Co., 1504 West Venango street, Philadelphia, who are taking sub-bids due at once.

New Jersey Construction News

Church, Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Moorestown Baptist Church, Moorestown, N. J. Brick, 1 story, balcony and basement, 45x60 feet, slate roof, hot water heat, electric lighting. Plans in progress.

Y. W. C. A., Stevens street, Camden, N. J., $300,000. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Camden Y. W. C. A., care of Mrs. Develin, Merchantville, N. J. Brick, fireproof, 4 stories and basement, 69x103 feet, slag roof, concrete floors, vapor heat, electric light, tile and marble work, metal lath, safety treads, roof ventilators, skylights, waterproofing and dampproofing, iron stairs and work. Plans in progress.

Office (alts. and add.), Northeast Corner Fifth and Cook streets, Camden. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Provident Life & Trust Co., care of architects. Brick, 3 stories, 40x60 feet, electric light, plumbing, general interior alterations. Plans in progress.

Store and Apartment, Blackwood, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Louis C. Joyce, care of architects. Brick, cinder block, 2 stories, 40x75 feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

Store and Apartment, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, name withheld. Brick and cinder block, 3 stories and basement, 38½x100 feet, slag roof, pine floors, vapor heat, electric light. Plans in progress.

Store House, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, School Board of Camden, Mr. Bleakley, secretary, Camden. Cinder block, plaster, 1 story, 20x28 feet, slag roof, cement floors, electric light. Owners ready for bids.

Store and Apartment, Gloucester, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, P. H. Stewart, Gloucester, N. J. Brick, steel, concrete block, 2 stories, 64x108 feet, slag roof, pine floors, electric light. Owners ready for bids.

Masonic Temple, Gloucester, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, care of architects. Brick, steel, 2½ stories, 50x200 feet, slag roof hard wood and tile floors, vapor heat, electric light, metal lath, roof ventilators, water and dampproofing. Plans in progress.

Residence, Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Dr. S. Ironside, care of architects. Brick, 2½ stories, 40x30 feet, slate roof, hard wood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Merchantville, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, care of architect. Brick, 2 stories, 38x26 feet, 20x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence and Garage, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Mrs. Lacier, care of architect. Brick, 3 and 1 stories, 52x40 feet and 20x20 feet, Spanish tile roof, hard wood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Apartments (3) (alts. and add.), Atlantic City, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owner, George C. Felker, 911 South Kentucky avenue, Atlantic City, N. J. Brick, hollow tile, 3 stories, 33x75 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile work, hollo wtile. Plans in progress.

Apartment, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Wm. Johnson, care of architect. Brick and steel, 3 stories, 30x80 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Store and Office (add.), Atlantic avenue, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Wm. I. Segal, Segal Building, Atlantic City, N. J. Brick, stone, 1 story, 55x140 feet, slag roof, wood floors, hollow tile, electric light, tile and marble work. Plans in progress.

Apartment, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Philadelphia. Owner, Ernest Byer, care of architect. Brick, steel, 4 stories, 40x100 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile and marble work, architectural terra cotta. Plans in progress.

Hotel Davis (add.), St. Charles avenue and Beach, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Mrs. Davis, on premises. Brick, steel, 7 stories, 40x80 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble work, hollow tile, elevators, roof ventilators, metal lath, skylights. Plans in progress.

Bungalow, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, George Bach, Trenton avenue, Atlantic City, N. J. Hollow tile, stucco, 1½ stories, 19x45 feet, asphalt shingle roof, hardwood floors, hot water heat. Owner taking sub-bids.

Apartment, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, J. F. Eilenberg, 122 South Maryland avenue, Atlantic City, N. J. Brick, steel, 5 stories, 39x103 feet, slag roof, hardwood floors, 2 elevators, steam heat, electric light, metal lath, tile and marble work, skylights. Owner taking sub-bids.

Residence (alts. and add.), Mississippi, below Oriental avenue, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, A. C. McClellan, Phillips House, Atlantic City, N. J. Brick, frame, stucco, 5 stories, 36x80 feet, slag roof, pine floors, electric light, metal lath, elevators. Owner ready for bids.

Stores (alts. and add.), 1008 Atlantic avenue, Atlantic City, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City, N. J. Owners, Standard Music Co., on premises. Brick, 2 stories, 20x30 feet, slag roof, hardwood floors, hollow tile, electric light, metal lath, tile work, plastering, copper work. Architect ready for bids, due August 7th.

Moving Picture Theatre, Haddonfield, N. J. Architects, Lackey & Hettle, 509 Federal street, Camden, N. J. Owner, Senator Jos. F. Walworth, Haddonfield, N. J. Brick, limestone, cut stone and blue stone, 2 stories, 41x159 feet, Barrett roof, cement and pine floors, roof ventilators, iron work, floor hardener, band, marble and terrazzo work, metal lath, electric lighting. Architects taking bids, due July 28th.

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owner, Herbert W. Staats, Merchantville, N. J. Brick and stucco, 1½ stories, 28x52 feet, slate roof, pine floors, hot water heat, electric light, tile and marble work, bond, iron work. Architect taking bids, due July 29th.

School, 904 Pacific avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Beth Israel Synagogue, Dr. Fisher, Atlantic City, N. J. Brick, 2 stories, 40x50 feet, slag roof, pine floors, electric light, roof ventilators. Architect taking bids, due July 27th.

School, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, School Board of Pleasantville, Arthur Stiles secretary. Brick, 3 stories, 84x122 feet, slag roof, hardwood floors, steam heat, electric light, roof ventilators, waterproofing. Owners taking revised bids, due August 8th.

Hotel, Ocean City, N. J., $850,000. Architects, Dreher, Churchman — Paul, Otis Building, Philadelphia. Owners, Chamber of Commerce, care of J. H. Slocum, care of Hotel Normandie, Ocean City, N. J. Brick, steel, concrete, 7 stories. Sketches submitted.

Hotel (add.), Atlantic City, N. J., $3,000,000. Architects, Carrere & Hastings, 52 Vanderbilt avenue, New York. Owners Hotel Chelsea, Morris avenue and Beach, Atlantic City, N. J. Brick, concrete, fireproof, 150x125 feet, steam heat, electric light, metal lath, tile and marble work, elevators. Plans in progress.

Road Work, Woodbury, N. J. Engineer, Wm. C. Cattell, County Engineer, Woodbury, N. J. Owners, Board of Chosen Freeholders, Woodbury, N. J. Reinforced concrete, 1,937 square yards, bond. Owners taking bids, due August 10th at 10 A. M. Deposit of $10.00.

Power House, Blackwood, N. J. Architect, private plans. Owners, Board of Chosen Freeholders, Camden County, Samuel Wood, chairman, Court House, Camden, N. J. Brick, concrete, steam heat, bond. Owners taking bids, due August 7th at 11 A. M.

Office (alts. and add.), southeast corner of Federal & Hudson streets, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Frost Bros., 540 Federal street, Camden, N. J. Brick, 3 stories, irregular size, slag roof, hardwood floors (heating reserved), electric light. Architects taking bids, due July 29th.

Residence, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, N. Schwartz, care of architect. Brick, 1½ stories, 45x45 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect taking bids, due July 31st.

Bank, Tuckerton, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atyantic City, N. J. Owners, Tuckerton Bank, care of F. R. Austin, Tuckerton, N. J. Brick, 1 story, 30x34 feet, 18x42 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal window guards, bank fixtures. Architect taking bids, due August 3rd.

Warehouse, Newark, N. J. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owners, Elliott Leather Works, 356 Admas street, Newark, N. J. Brick, 2 stories, 50x90 feet, Barrett roof, cement and pine floors, millwork. Plans in progress. Architects will take sub-bids on above mentioned material. Owners will sublet other work.

New Jersey Contracts Awarded

Factory Building, Sixth and and Jefferson streets, Camden, N. J. Architect, private plans. Owner, Charles W. Breneman, 1306 Sansom street, Philadelphia. Concrete and steel, 4 stories, 40x200 feet, slag roof, concrete and cement floors, steam heating, electric lighting, rolled steel sash. Contract awarded to Frank Hill Smith, Dayton, Ohio.

Store Building, Broadway and Spruce sts., Camden, N. J. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owners, Harry Pinsky Sons Co., on premises. Brick, steel and reinforced concrete, 5 stories and basement, 56x92 feet, slag roof, cement, oak and maple floors, hollow tile, metal lath, terrazzo, rolled steel sash, hollow metal skylights, fireproof, hollow metal and rolling steel doors, ornamental terra cotta, iron work (elevators reserved), heating, lighting and plumbing separate bids. Contract awarded to Potts Bros. & Cooperson, 129 North Eleventh street, Philadelphia.

Residence and Garage (alt. and add.), 6119 Monmouth avenue, Atlantic City, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City, N. J. Owner, M. H. Goodin, Adelphia Hotel, Philadelphia. Hollow tile, stucco, 2 stories, 38x53 feet, Spanish tile roof, hardwood and concrete floors, hot water heat, electric light. Contract awarded to A. B. Bowen, Ventnor, N. J.

Residence, Miami, Florida. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owner, Joseph Frailenger, Shankville, Pa. Hollow tile, stucco, 2 stories, 30x42 feet, 30x8 feet, Spanish tile roof, pine floors, electric light, tile work. Contract awarded to Thomas Ryan, Atlantic City, N. J.

School (add.), Idlewood, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, Egg Harbor Township, H. B. Lee, Mays Landing. Brick, 2 stories, 40x70 feet, pine floors, electric lighting. Contract awarded to P. G. Hannum, Georgie avenue, Atlantic City, N. J.

Church, Ventnor, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Ventnor Community Church, Ventnor, N. J. Stone, 1 story, 65x85 feet, slag roof, iron work, terra cotta. Contract awarded to D. A. McClelland Co., Drexel Building, Philadelphia.

Store (alts. and add.), Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, H. Jones, care of architect. Terra cotta, brick, 4 stories, 30x150 feet, slag roof, hardwood floors, vapor heat ,electric light, tile and marble work, hollow tile. Contract awarded to Charles D. Thompson, Atlantic City, N. J.

Miscellaneous Construction News

Bungalow, Buffalo, N. Y. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Conrad Hammer, Buffalo, N. Y. Frame, 1½ stories, 30x26 feet, shingle roof, pine floors, electric light. Owner will build.

Residence, Winston-Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. A. Kent, Winston-Salem, N. C. Brick and hollow tile, 2½ stories, 42x50 feet, slate or tile roof, oak floors, vapor heat, electric lighting. Architect taking bids due August 2nd.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

Proposals

SEALED PROPPOSALS

Notice is hereby given that separate sealed proposals will be received by Samuel Wood, Chairman of the Joint Committee of the Board of Chosen Freeholders of the County of Camden, consisting of the Hospital for the Insane and County Farm Committees, opened and read in public on Monday, August 7th, 1922, at eleven o'clock A. M., daylight saving time, at a public hearing of said Joint Committee to be held in the Freeholders' room in the Court House, Camden, New Jersey, for the following:

1. The furnishing and installing of a steel pressure filter in the power house on the above lands at Blackwood, N. J., in accordance with the said plans and specifications. The envelopes enclosing bids for this work must bear the words, "Bid on Filter."

2. The furnishing and installing of two 180-H. P. boilers, together with foundations, etc., in the power house on the lands aforesaid, in accordance with the said plans and specifications. The envelopes enclosing bids for this work must bear the words, "Bid on Boilers."

3. The building and construction of a power house and retaining walls for cold storage upon the lands aforesaid, in accordance with the said plans and specifications. The envelopes enclosing bids for this work must bear the words, "Bid on Power House."

4. The furnishing and installing of piping in connection with the proposed new power house on the lands aforesaid, in accordance with the said plans and specifications. The envelopes enclosing bids for this work must bear the words "Bid on Piping."

All bids must be enclosed in sealed envelopes, bearing the name and address of the bidder, as well as the words above specified, and addressed to Mr. Samuel Wood, Chairman, Court House, Camden, New Jersey.

Each bid must be accompanied by a certified check in a sum not less than five per cent. of the bid submitted.

A surety company bond will be required in the full amount of the contract for the proper completion of the work, and the bidder shall also enclose in his bid a bid-certificate from a surety company.

The Board of Chosen Freeholders reserves the right to reject any and all bids.

Dated July 20, 1922.

By order of the Board of Chosen Freeholders of Camden County.

JOHN PRENTICE, Director.
FRED W. GEORGE, Clerk.

TREASURY DEPPARTMENT, Office of the Supervising Architect, Washington, D. C., July 19, 1922. Sealed Proposals will be opened in this office at 3 P. M., August 2, 1922, for furnishing and installing fly screens for cottages Nos. 1, 4, and 5, and Mess Hall and Administration Building of the United States Public Health Service Hospital No. 42 at Perryville, Md. Specifications may be obtained at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

SEALED PROPOSALS

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JOHN PRENTICE, Director.
FRED W. GEORGE, Clerk.

HOW ELIMINATE WASTE?

Practical Suggestions for Large Savings*

BY D. KNICKERBACKER BOYD

Standardist, Philadelphia

The actual subject of this brief talk has been touched upon by every speaker, starting with Secretary Hoover yesterday morning.

I could therefore finish with the statement that the elimination of waste in the construction industry is necessary in order that the materials and man power of this country, or of any country, may be conserved and that the health, safety and comfort of the occupants of the buildings may be provided for with the least lost motion and the least expenditure of money.

I will go somewhat into detail concerning features of waste in the construction industry which, as I see them, can and should be eliminated.

It can be conservatively estimated that the A. C. C., properly functioning through local groups, may be able to save the American people one billion dollars through the elimination of these and other preventable wastes.

Start Buildings Above Grade

Let us think of the enormous waste going on everywhere incidental to digging down for cellars and digging, refilling, and redigging and resurfacing of streets, roads and sidewalks for water and drainage pipes, conduits, sewers, and public utilities.

The necessity and opportunity for elimination of waste in this direction is great. I offer for consideration the suggestion, which is not new, that all newly developed, areas, and all changes wherever possible in existing cities, shall have buildings started from grade, without excavations except for cuts to use as fills.

Indeed, with modern methods of heating, why should not the average house be built without a cellar, and storage for coal, provisions, etc., be afforded on the ground floor, eliminating waste of effort in going up and down cellar stairs continually.

Why should not streets in cities be built above the ground instead of cutting out the ground under them for every conceivable purpose and over and over again without regard for incidental losses and waste?

Having disposed of the ground (at enormous expense) we now come to construction of buildings. In this whole field, we of the construction industry are too apt to concentrate our thoughts on new work.

This is not right. We must differentiate between repairs and maintenance of existing structures, alterations and additions, demolition and reconstruction, and set it off against new work.

Fire and Loss of Life

Taking up existing structures first—two enormous wastes stand out.

These are preventable losses of property by fire, to say nothing of the more important loss of human life and man power, and preventable losses due to decay and deterioration.

We, through our new American Construction Council have an unprecedented opportunity to show our enlightened unselfish interest in the public welfare by taking every measure possible to stop a waste of $400,000,000 annually and of thousands of lives and untold millions of man-hours due to fire alone.

The surest means I know of is to make everyone careful, and I suggest that we urge the adoption everywhere of personal liability laws to hold individuals respon-

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*Address before the Organization Meeting of the American Construction Council, Washington, D. C., June 20, 1922.

sible for the cost of extinguishing fires due to their neglect or carelessness.

Let us also see to it that all possible fire precaution and protective measures are adopted in new construction work.

The other great waste which I have mentioned in connection with existing structures is the decay and deterioration which, through lack of knowledge and foresight and through downright carelessness, is allowed to go on everywhere when simple preventive measures involving construction materials and labor promptly and properly applied, would save countless millions of waste.

Here we have an opportunity to display our enlightened selfishness by selling the paint-up and fix-up idea to the public in its own interest as well as in the interest of the construction industry.

Saving Through Standardization

A vast amount of waste due to unnecessary individual effort could be eliminated if architects and engineers would, in cooperation with all the industries, standardize the parts of certain buildings and standardize the detail drawings necessary to accomplish satisfactory results.

The participation of producers and manufacturers is vital in this program. Already the Department of Commerce has made a fine start in simplified practice elimination of unnecessary types, sizes, patterns and finishes of many parts and articles related to construction. Its Building Code Committee is also doing notable work in offering to the country a document which will assist in the economical and safe use of materials and produce further economies in the uniformity of dimensional requirements. The field of standardization is too large to more than touch upon here and of all the many possibilities I will mention only one.

Let us assume that, instead of each architect laboriously making detail drawings for window frames for all normal requirements, a universal box frame and sash were developed and adopted as standard and that this box was carefully and economically worked out to prevent air leakage. What would be the result? Cold would be kept out and heat kept in. Suppose the resultant saving in fuel, aside from the added comfort, was but one-half ton of coal to each home. What would be the elimination of waste in this one item alone?

I leave it to you to figure out, but it would not only amount to millions of tons and dollars, but reflect itself in relief to transportation and all down the line of construction activities.

"Estimates Cheerfully Furnished"

The builder or general contractor next appears upon the scene and, by the use of three simple words in an innocent looking combination, he has had a very large part in causing waste. I refer to the slogan, "Estimates Cheerfully Furnished," which has so greatly contributed to the prevalent wasteful method of estimating on the drawings of architects and engineers. Specifications, too, must be standardized to intelligently say what they mean.

Some means should be devised to eliminate the enormous amount of time expended by builders and sub-contractors estimating on every building operation, many of which, as you know, do not proceed. That is an absolute loss. In my opinion builders should be paid a fee for estimating. That would be a benefit in several ways, one of which would be that owners would not require so many builders to estimate, and the builders would not require so many subcontractors to estimate. Overhead would thus be cut down all along the line. The more experienced and capable builders would be given the preference. At the present time when each builder or subcontractor estimates, each one separately takes off the quantity. Another way to eliminate waste would be to have one quantity statement or survey, so all the contractors estimating would be figured on the same quantity, and would merely appraise their units and their incidental expenses and attach their proper profits.

Complete Co-operation Necessary

We come next to the actual construction after having awarded a contract for a building, and there we find the greatest opportunity to eliminate waste. The only satisfactory method of proceeding in that direction is to have that complete co-operation between architects, builders, material men, all the subcontractors and all the workers on the job, which will come about through local effort co-ordinated with this A. C. C.

I want to read a very brief extract from an article in a recent issue of "Forbes" entitled, "Industry can double productivity."

"Industrial efficiency in this country is no greater than 40 per cent., and probably as low as 15 per cent. of what it should be. A conservative estimate places it at 25 per cent. of fair and attainable standards. This means an industrial waste of 75 per cent. If we could eliminate preventable wastes, productivity would increase 300 per cent."

We have been making studies in Philadelphia of this whole question of the elimination of waste, but so far the task has been conducted by the workers themselves, strange as it may seem, and those workers are seeking the co-operation of the architect, engineers and builders, which is very gradually being secured.

Sandford E. Thompson has said, "certain wastes stand out clearly in the building trades:

"1. Loss of working time throughout the year.

"2. Poor planning of construction work and of the individual jobs by the builder.

"3. Lack of knowledge of a day's work.

"We find that we must dovetail all these things together, so that every man shall have the opportunity to work; we must develop the technique of each industry, so that every man can make the best use of his powers; we must train the employer to plan his work and also to appreciate the human side of life.

"You may ask why studies of detail, why the determination of standards will aid in the elimination of waste. It is because it will increase the initiative of the worker, it is because it will differentiate the good man from the poor man it is because it will present an aim to work to, because—and this is perhaps the most important feature of all—it will show us the easiest and most economical way of doing the work and will compel employers to take more thought to the methods of handling the work and to planning out the work that is to be done. Thus costs can be and will be reduced."

A Congress or Conference Board

I want to add a brief sketch of what seems to me are the most pertinent and important problems to be solved in co-ordination of all facts connected with building. These can be studied by each local group.

Such a group would act as a central bureau through which, voluntarily, all construction programs could be cleared, including national, State, municipal and private work in each territory. Suggestions could be made for co-ordination of activities, allocation of materials and reduction of estimating costs; local production could be encouraged, rail hauls shortened, traffic congestion lessened; a constant labor survey could be maintained and employment bureaus established to the advantage of the employer as well as of the employee; good management could be promoted, efficiency encouraged, apprentices educated and properly trained; and increased production would result all around.

Educate Public to Responsibility

In such a program another vital necessity is to educate the public to an understanding of the fundamental principles of a sensible distribution of demand for services throughout the year. Instead of carrying on our main construction work in seven or eight months that which would seven or eight months that which could be deferred and done through the remaining four or five months should be so sceduled. Owners making interior alterations or additions to buildings should be encouraged to have this work done in the "off-peak" season. Old buildings should be demolished in the cold weather to make way for the new construction, and not (as is often the case) at the time when the new building itself might be under way.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

AUTOMATIC WATER HEATERS.
C. F. Tinnermann.....5940 Arch St., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

CONTRACTORS' EQUIPMENT
Moore & Weisbrod.....229 N. 12th St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Arvon Co. .....1814 Ludlow St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co. ..Harrison Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.
Western Waterproofing Co.Franklin Tr. Bldg., Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works
1505 N. Mascher St., Phila.
Potts, Horace T. & Co. .....316 N. 3rd St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR HARDENER.
Thos. F. Gibson.....Franklin Trust Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HAULING CONTRACTORS.
Kane & Co. .....1226 N. 9th St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Mont Clare Foundry Co.,
N. E. Cor 11th and Ridge Ave., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

INSULATION.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE.
Insurance Co. of North America,
3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....531 N. 4th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LEVELS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

LIGHT IRON CONSTRUCTION.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

LUMBER.
Felin, Chas. F., & Co.,
Old York Road, above Butler St., Phila.
Haney-White Co. .....17th and Glenwood, Phila.
Irwin, James M., & Co. .....976 N. 8th St., Phila.
Kugler, Geo. W., & Sons Co.,
915 New Market St., Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

MARBLE MOSAIC.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

METAL LATH.
Donnelly & Co. .....531 N. 4th St., Phila.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co.....1345 Arch St., Phila.

METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

MILL WORK.
Haney-White Co. .....17th and Glenwood, Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

OFFICE PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

ORNAMENTAL IRON.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

PAINTING (Plain and Decorative).
Clark, M. H. .....58th and Larchwood Ave., Phila.

PAINTS AND VARNISHES.
Truscon Laboratories.....1432 S. Penn Square, Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.

PIPE COILS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

PIPE AND PIPE FITTINGS.
Grant, Chas. J., Supply Co.,
25th and Morris Sts., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Vogel, Joseph, Co. .....Wilmington, Del.

RANGES
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATORS.
Borden Stove Co. .....1311-13 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

ROAD WORK.
Croyle, Guy .....Merion Station, Pa.

ROOFING.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.
Tinney, Walter H., Co.,
63rd and Woodland Ave., Phila.

ROOFING SLATE.
Baird, A. S. .....24 S. 7th St., Phila
Chapman Slate Co. .....Bethlehem, Pa.
Emack, The John D., Co. .....Otis Bldg., Phila.

ROOFING TILE.
Baird, A. S. .....24 S. 7th St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,
Nicetown Lane and Powder Mill Road, Phila.

SAFETY GUARDS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

SAND AND GRAVEL.
Baird, A. S. .....24 S. 7th St., Phila.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co.,
24th and Callowhill Sts., Phila.
Magna Sand Co. .....139 S. 3rd St., Phila.

SEWER PIPE.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

SHEET METAL WORK.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Tinney, Walter H, Co., 63rd and Woodland Ave.

SHEETROCK (Wall Board)
Pearce Fireproof Co. .....1345 Arch St., Phila.

SHINGLES (Asbestos and Asphalt).
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.

SLATE
Emack, The John D. Co. ..... Otis Bldg., Phila.

SOUNDINGS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

STAIRS (Sheet Steel).
McFarland-Meade Co.,
70th and Kingsessing Ave., Phila.

STEEL SASH.
McFarland-Meade Co., 70th and Kingsessing Ave.

STONE.
Fox Croft Quarry Co. .....24 S. 7th St., Phila.
John D'Lauro.....55 E. Mermaid Lane, Phila.

STRUCTURAL STEEL.
Adelhelm & Phillips.....1511 Sansom St., Phila.

STUCCO.
Daniel C. Sinclair.....East Lansdowne, Pa.

SURETY BONDS.
Stokes, Packard, Haughton & Smith,
434 Walnut St., Phila.

TERRA COTTA (Architectural).
Conkling-Armstrong Terra Cotta Co.,
Denckla Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

TILE AND TERRAZZO WORK.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Jannetti & Carroll.....269 S. 11th St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

TRANSITS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co.....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

VENTILATING SYSTEMS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

WALL BOARD (Sheetrock)
Pearce Fireproof Co. .....1345 Arch St., Phila.

WALL COPING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

WATER HEATERS.
Borden Stove Co.....1311 Arch St., Phila.
Mont Clare Foundry Co.,
N. E. Cor 11th and Ridge Ave., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

WATER PAINT.
Southern, Wm. B., N. W. Cor. 12th and Spruce, Phila.

WATERPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Arvon Co. .....1814 Ludlow St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila
Contract Waterproofing Co. ..Harrison Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.
Western Waterproofing Co.Franklin Tr. Bldg., Phila.

WHITEWASHING.
Southern, Wm. B.,
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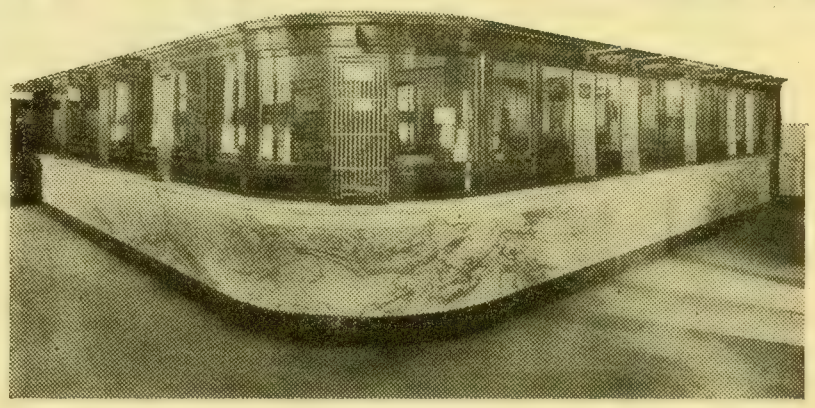
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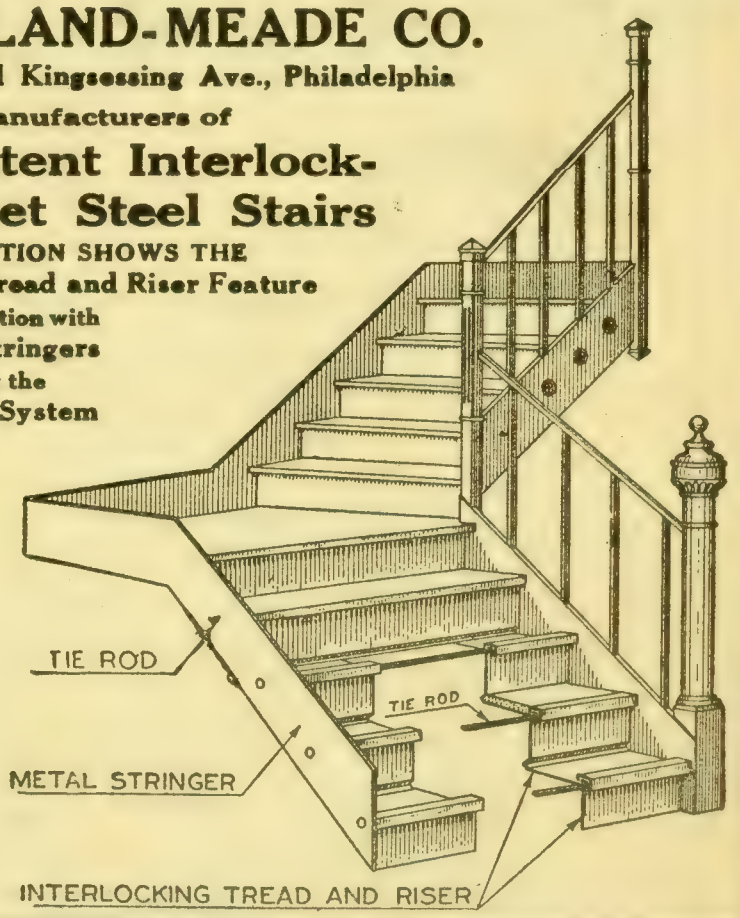
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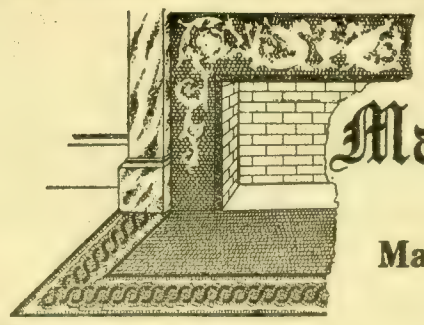


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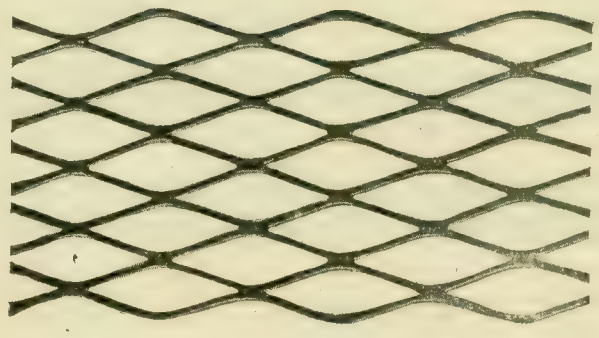
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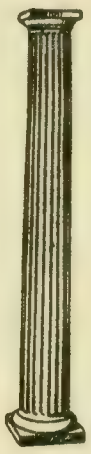
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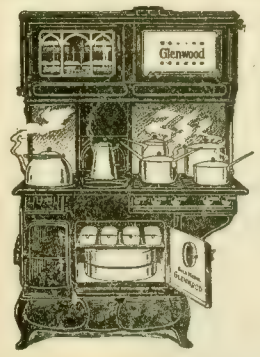
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
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August 2, 1922

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As The Editor Sees It

CONSTRUCTION COUNCIL

Executive Committee Appointed at Board Meeting in New York

The year's program for the American Construction Council adopted by the Executive Board of the Council at the home of Franklin D. Roosevelt, President, in New York City, June 23, 1922, will be chiefly along the following lines:

First—To strike at what perhaps is the fundamental ill in the industry—the lack of steady employment on the part of 3,000,000 workers.

Second—To promote vocational guidance through the educational systems of the country, in order to raise the efficiency and workmanship and to co-operate with labor in effecting a reduction in the national shortage of skilled building mechanics and encouragement of proper apprenticeship systems.

Third—To appoint a committee immediately to fomulate a code of ethics governing all branches of the industry to promote greater public confidence and to eliminate various abuses from which both the public and the industry have suffered.

At this meeting of the Board, at which Mr. Roosevelt occupied the chair, it was decided to tackle the problem of seasonal unemployment without delay. The concensus of opinion was that the days of employment were fewer than those constituting a theatrical season, and the annual earnings of building workers small, although the daily wage in certain trades had become almost prohibitive. If the obstacles to steady employment could be entirely overcome, the cost of construction would be reduced.

The headquarters of the Council will be in Washington, D. C., where governmental statistics will be within easy access. Meetings of the Board will be open to the public. The active management will be in an Executive Committee, composed of one representative from each of the eleven groups into which the Council is divided. For the first year, this Committee will be made up as follows:

Architects—D. Knickerbacker Boyd, Philadelphia.

Engineers—Charles F. Loweth, Chicago.

General Contractors—Noble Foster Hoggson, New York.

Sub-Contractors—Oscar H. Reum, Chicago.

Construction Labor—John Donlin, Washington.

Material and Equipment Manufacturers—M. T. Bannigan, Utica.

Bankers, Bond, Insurance—Willis H. Booth, New York.

Railroads and Public Utilities—Francis Blossom, New York.

Federal, State, County, and Municipal Officials—John M. Gries, Washington.

Builders' Exchanges and Building Trades Employers' Association—Walter Klie, Cleveland.

ARBITRATION FAVORED

A. G. C. Interpretation Explained Before Railway Engineering Association

At a special meeting with representatives of the American Railway Engineering Association in New York, June 7, General Marshall and J. W. Cowper explaind the arbitration clause an interpreted by the Associated General Contractors in the Universal Contract Form proposed by the Joint Conference on Universal Contractors. The basic principles of arbitration as held by the A. G. C. are as follows:

1. Since the engineer or architect is the person who conceives a structure, and is responsible for its safety, integrity, and appearance, he should in collaboration with the owner, be given authority to see that the work is carried out as conceived, even to the extent of making changes in the work which appear desirable in its progress. The engineer or architect should have final decision as to the result to be obtained. From the standpoint of building safe and satisfactory projects and of expediting the work, it is essential that some individual have final determination in the elements of safety, integrity, and appearance. This person must obviously be the architect or engineer. Considerations of cost, how-

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ever incurred, by any change of plans or ambiguity, is a matter that would be settled by agreement or arbitration.

2. It is not feasible to arbitrate all subjects affecting costs, but it is possible to separate on a different cleavage and arbitrate the cost element of any subject, reserving other elements, namely, the results to be obtained, as a matter on which the architect and engineer has the final say.

3. In the case of ambiguity in the general provisions of the contract, neither party should have final say, and the matter should be settled by arbitration.

These principles constitute one idea of limited arbitration, which exempts interpretation of plans and specifications from those arbitrable subjects.

At a meeting of lumber manufacturers, lumber wholesalers and lumber retailers held at the Department of Commerce in the latter part of May, it was stated that as between these three bodies arbitration will be the rule. The Chamber of Commerce of the United States has endorsed commercial arbitration also, and altogether the idea is gaining favor.

A NATIONALIZED BUILDING CODE

Contractors, Building Departments, Public, All Served

BY H. E. PLUMMER

Inspector of Buildings, Portland, Oregon

The average building code of the American city, although the result of much time and work and earnest thought on the part of well constituted committees, is still a more or less imperfect document. The dissatisfaction expressed with the code varies somewhat with the different communities, but a careful investigation will show that there is some dissatisfaction with the code in every city. In the average city, the viewpoint of most people is that the code is like a man who has been sick for a long time, but is hanging on and manages to go to business. Every once in a while his condition seems worse and he is put under the care of doctors and nurses for a going-over and patching up. After such treatment, his condition appears better for a short time, but shortly it is seen that such improvement was more apparent than real. When the case of the patient is diagnosed, it is found to be about as follows:

General condition—poor and run down.
Constitution—good; otherwise the patient would not be alive after so much knocking around and abuse.
Nerve—wonderful, as patient is always making trouble by butting in where not wanted.
Joints—stiff and squeaky.
Eyes—very bad, can see but a few feet ahead.
Heart action—irregular and misses beats frequently.
Patient can no longer run for a car or from an enemy.
Lungs—poor, as patient can hardly talk above a whisper.
Brain—in sad condition; does not function, except the bump of obstinacy and love of life.
Take it all in all, the patient is pretty much of a wreck.

At the present time, however, we have called in some new physicians who are prescribing a new treatment for the case. It seems that the patient has been leading too solitary a life and should enlarge his horizon and associate more with his fellow men. He has played a lone hand too long, and now must be patched up, given a brand new suit of clothes and become a member of the Nationalized Codes Association, which has promised to provide new brain, heart and lung power, oil for joints, etc., so that the patient will be a new man with spring in his toes, ready and able for a day's work and to cure the ills to which humanity is subject.

The patient has been accused of many crimes, as well as diseases and defects other than those given above; and, while he has some strong supports, yet he has some bitter enemies. He is naturally very much of a conservative in policies and politics. Take him all in all, he is not a bad fellow and, if his friends take over the work of improvement rather than his enemies, he may again lift up his head and become more of a progressive and occupy his real place in society.

It is very easy to find out what the deficiencies in the building codes are, as there are many people that are eager to point out the same. When these same individuals are questioned as to what changes should be made to provide a practical and up-to-date working code, their volubility decreases rapidly and insistence upon an answer commonly causes them to fade away and they lose themselves in the background of the landscape.

Building Code Essential

It might be well to consider for a moment some of the fundamental essentials of a building code:

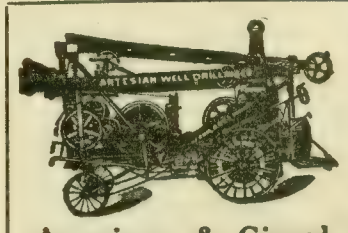
The first fundamental of the building code is that it should provide for the safety of the people that occupy buildings and those in the neighborhood.

The second fundamental is that it should provide for a certain amount of well being of the people in the building and in adjoining buildings, which well-being can be preserved by providing light, air, easy access and exit from the building.

The safety requirements of the code cover both proper strength of construction and protection against fire. In the

(Continued on Page 499)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Building, 1624 Arch street, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Frank H. Schrenk, 1218 Chestnut street, Philadelphia. Cement block, 5 stories, 22x150 feet, slag roof, electric light. Plans in progress. Architect will take bids in a few days.

Moving Picture Theatre, Fortieth and Filbert streets, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, Joseph Willard, 326 North Forteith streeet, Philadelphia. Brick, concrete, slag roof, tile and cement floors, steam heat, electric light, tile and marble work, metal lath, roof ventilators, fire doors. Revised plans in progress.

Church, Thirteenth and Ruscomb streets, Philadelphia. Architects, Ritchler & Eiler, 147 North Fifth street, Reading, Pa. Owners, Muhlenberg Evangelical Lutheran Church, Rev. C. P. Swank, 4922 Camac street, Philadelphia. Stone, 1 story and basement. Too early for details.

Residences (200), Fifth and Spencer streets, Philadelphia. Architect, private plans. Owners, W. Fischer Sons, 4900 North Eighth street, Philadelphia. Brick, 2 and 3 stories, 20x40 feet, slag roof, oak floors, hot water heat, electric light. Preliminary plans in progress.

Office Building, Northeast Corner Sixteenth and Walnut streeets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Samuel M. Clements, Jr., West End Trust Building, Philadelphia. Brick, steel, concrete, 18 stories, 50x120 feet, concrete floors, hollow tile, metal lath, elevators, steam heat, electric light, tile and marble work. Plans in progress.

Apartment Houses (2), Forty-ninth and Pine and Fiftieth and Pine streets. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, Samuel Schlosberg, 5446 Locust street, Philadelphia. Brick, 3 stories, 74x82 feet each, slag roof, oak floors, vapor heat, electric light, tile work. Palns in progress. Owner will build and is ready for sub-bids.

Residences (20), Pine street, between Forty-ninth and Fiftieth streets. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, Samuel Schlosberg, 5446 Locust street, Philadelphia. Brick and stucco, 2 stories and attic, 16x56 feet, slag roof, oak floors, hot water heat, electric light. Owner taking sub-bids.

Residences (36), Rockland and Boudinot streets, Philadelphia. Architect, private plans. Owner, John T. Clasby, 5300 North Fifteenth street, Philadelphia. Brick, 2 stories ,15x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans completed. Owner taking sub-bids.

Factory (add.) and Stores (5), Unity, Paul and Frankford avenue. Architect, not yet selected. Owners, LaFrance Textile Co., Bernard Davis, president, 4423 Frankford avenue, Philadelphia. Brick, 2 stories and basement, 150x100x200 feet. Bids will be taken within one month.

Bank Building, Unity street and Frankford avenue. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Frankford Trust Co., 4344 Frankford avenue, Philadelphia. Stone and brick. Plans in progress. Too early for details.

Residences (121), Fifth and Wyoming avenue (Northeast Corner), Philadelphia. Architect, private plans. Owner, Charles G. Erny, 4665 Paul street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric light. Plans completed. Owner ready for sub-bids.

Apartment, 1514 North Fifty-fourth street, Philadelphia. Architect, Jesse L. Stetler, 1484 North Fifty-second street, Philadelphia. Owner, Joseph Danbacker, 1514 North Fifty-fourth street, Philadelphia. Brick, 2 stories, 33x65 feet, slag roof, oak floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Factory (alts. and add.), 912 Walnut street, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owners, Hastings & McIntosh Truss Co., 912 Walnut street, Philadelphia. Brick, 3 stories, composition roof, hot water heat, electric light, metal lath. Plans completed. Architect ready for bids.

Residences (3), Northwest Corner Sixth and Chelten avenue, Philadelphia. Architect, James W. Neff, 1600 Arch street, Philadelphia. Owner, E. C. Durell, 1713 North Twenty-fourth street, Philadelphia. Stone, 2½ stories, 31x43 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, ornametal iron work. Owner is taking sub-bids due as soon as possible.

Office Building, Thirteenth and Spruce streets, Philadelphia. Architects, Ballinger & Co., Twelfth and Chestnut streets, Philadelphia. Owners, Philadelphia Real Estate Board, 1126 Walnut street, Philadelphia. Brick, cut stone and steel, 3 stories, mezzanine and basement, 103x36 feet (heating, plumbing and electric wrok reserved), slag roof, concrete floors, hollow tile, metal lath, safety treads, roof ventilators, tile, marble and terrazzo work, rolled steel sash and skylights, tin clad and kalamein doors, Bond, floor hardener, iron stairs, ornamental iron work. Architects taking bids due August 9th.

Building (alts. and add.), 1206 Chestnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Max Dann, 1312 Walnut street, Philadelphia. Brick, artificial stone, concrete and steel, 4 stories, 92x24 feet, slag roof, cement and North Carolina pine floors (electric work, heating, plumbing and elevators reserved), metal lath, roof ventilators, tile and marble work, sheet metal sash, rolled steel skylights, kalamein doors, bond, metal bulks, waterproofing, dampproofing, ornamental iron work. Architect taking bids due August 5th.

Building for Tubercular Mental Patients, Byberry, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Bureau of Hospitals, Department of Public Health, C. L. Furbush, M. D., Director, 584 City Hall, Philadelphia. Brick, cut stone, hollow tile and stucco, 1½ stories, 148x35 feet, and 2 wings, 90x43 feet, slag and asbestos shingle roof, granolithic and pine floors, roof ventilators, waterproofing, iron work and stairs, steel doors, rolled steel sash and skylights, marble and terrazzo work, metal lath (steam heat, electric light and plumbing separate bids). Owners atking revised bids due August 8th at noon.

Gate House, Second and Luzerne streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, C. L. Furbush, M. D., Director ,584 City Hall, Philadelphia. Brick, steel, cut stone, 1 story and basement, 31x24 feet, slate roof, cement floors, hollow tile, metal weather strips, waterproofing, iron work, metal lath.

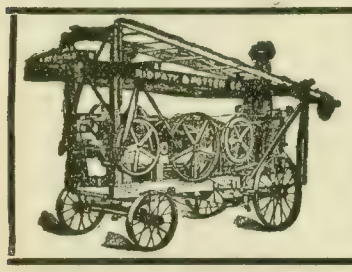
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Owners taking revised bids due August 8th at noon.

Dairy Building, Stable and Wagon Shed, 3325 Old York road. Architect, private plans. Owners, Breyer-Sharpless Milk Association, Ninth and Cumberland streets. Brick, steel and cut stone, 2 stories, 2 stories and 1 story, 120x70 feet and 92x106 feet, slag roof, maple and concrete floors, metal lath, elevators, roof ventilators (electric work and water tank reserved), tile and marble work, rolled steel sash, fire doors, ornamental iron work, cork insulation. Owners taking bids due August 10th.

Auditorium Building, Holmesburg, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Emmanuel Protestant Episcopal Church, Holmesburg, Philadelphia. Stone, steel, 1½ stories, 42x84 feet, slate roof, North Carolina pine floors (heating, plumbing and electric work reserved), tile work, metal lath. Architects taking bids due August 3rd.

Building (Stores and Apartments), Broad, Rockland and Old York road, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, George A. Weikel, Morris Building, and Benjamin Barron, Commonwealth Building, Philadelphia. Brick, 2 stories, 126x73 feet, slag roof, maple floors, hollow tile, metal lath, steam heat, electric light, tile work, ornamental iron work, dampproofing. Architect taking bids due August 3rd.

Church, Twenty-sixth and Tasker streets, Philadelphia. Architect, Charles Schaef, 2203 South Twenty-fourth street, Philadelphia. Owners, St. Aloysious' Roman Catholic Church, Rev. Henry J. Steinhagen, on premises. Steel, brick, cut stone and steel, 116x63 feet, shingle-slag roof, yellow pine floors (heating, plumbing and electric work reserved), metal lath, bond, terra cotta, ornamental iron work. Architect taking bids due August 9th.

Residences (alts. and add.), Philadelphia. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owners: 1924-26 Panama street (as one house), Mr. Norman Grey, and 1928 Panama street, Mrs. George J. Bergen, care of architect. Brick, cut stone, stucco, 3 stories, 16x12 feet, 12x10 feet, tin roof, oak and yellow pine floors, painting, glazing, carpentry, mill work, plumbing, bond, ornamental iron work, metal lath, tile work, ornamental iron work (heating, electric lighting and finished hardware reserved). Architect taking bids due August 4th.

Garages (73), rear of 6122 Germantown avenue, Philadelphia. Architect, Ezekial B. Medoff, 1116 Lincoln Building, Philadelphia. Owner, Harry Ackerman, care of architects. Brick, 1 story, 306x78 feet, slag roof, cement floors, hot water heat, electric light, ornamental iron work. Architects taking bids due as soon as possible.

Residences (18), Fourth, Cayuga and Lawrence streets, $74,000. (Also one, $4,200). Architect, private plans. Owner, B. L. Shapiro, 6405 North Broad street, Philadelphia. Brick, 2 stories, 15x43 feet and 15x29 feet, 12x8 feet, slag roof, electric lighting. Owner will build.

Factory, Northwest Corner Twenty-eighth and Ritner streets, Philadelphia. Architects, private plans. Owners, Philadelphia Partitions & Building Block Corporation, care of William Chapman, president, Medical Arts Building, Philadelphia. Brick, concrete block, 2 stories, 100x200 feet, slag roof, electric light. M. J. O'Mera, 6421 Overbrook avenue, will build.

Residences (15), Wayne avenue, Tulpehocken streete and Washington lane, Philadelphia, $275,000. Architect, private plans. Owner, James W. Kissick, 1405 Real Estate Trust Building, Philadelphia. Brick, 2 stories, (1) 49x33 feet, (4) 32x39 feet, 22x12 feet, and (10) 17x48 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work. Owner will build.

Residences and Garages (30), Cobb's Creek Boulevard and Walton avenue, $129,000. Architect, Sol. Kaplan, 929 Chestnut street, Philadelphia. Owner, Joseph Bobb, 6250 Locust street, Philadelphia. Brick, 2 stories, 15x32 feet, 12x21 feet, 16x54 feet, 15x41 feet, 15x28 feet, 12x10 feet, hot water heat, electric light, slag roof. Owner will build.

Residences (2), south side Roosevelt Boulevard, east of Mascher street, $7,000 each. Architect, private plans. Owner, S. S. Wilmer, 3211 Comly street, Philadelphia. Brick, 2 stories, 20x38 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences and Garages (26), Ridgewood avenue, East of Fifty-seventh, $133,000. Architect, private plans. Owners, Shapiro & Reed, 5300 Chestnut street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hot water heating, electric lighting. Owners will build.

Residences (8), 4657-71 Adams avenue, Philadelphia, $4,500 each. Architect, private plans. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 16x30 feet, 11x10 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (2), Lyons avenue, West of Seventy-seventh street, $3,000 each. Architect, private plans. Owner, George S. Roe, 6949 Saybrook avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heat, electric light. Owner will build.

Engine Room (add.), South side Passyunk avenue, East of Schuylkill avenue, $20,000. Architect, private plans. Owner, United Gas Improvement Co., Broad and Arch streets, Philadelphia. Brick, 1 story, 31x68 feet 10 inches, slag roof, cement floors. Owners will build.

Garages (8), 6101-07-09-11-13-15-17 Nassau street, $4,800. Architect, private plans. Owners, Beckershoff & Wilson, on premises, or 5156 Haverford avenue. Brick, 1 story, 10x17 feet, slag roof. Owners will build.

Residences (2), West side Camac street, North of Sixty-fifth avenue, $7,000. Architect, private plans. Owner, Alfred H. King, 2851 North Marshall street, Philadelphia. Brick, 2 stories, 17 feet 8 inches x 43 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (6), 5029-39 Saul street, Philadelphia, $6,000 each. Architect, private plans. Owners, George R. Osborne & Son, 5014 Saul street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heat, electric light, tile work. Owner will build.

Residences (26), Sixth and Fairhill streets, $133,000. Owner, Walter S. Bauer, 5802 North Fifth street, Philadelphia. Brick, 2 stories, 16x42 feet, 16x34 feet, 16x31 feet, 11x11 feet, slag roof, hot water heat, electric light. Owner will build.

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Residence, South side Callowhill street, West of Sixty-third street, $3,500. Architect, private plans. Owner, W. E. Douglass, 334 North Sixty-third street, Philadelphia. Brick, 3 stories, 19x78 feet, slag roof, hot water heat, electric light. Owner will build.

Shed (add.), East side Tabor road, North of Wakeling street, $2,000. Architect, private plans. Owners, Keystone Brick Works, Tabor and Wakeling streets. Frame, 1 story, 34x107 feet. Owners will build.

Residences (2), East side Glenloch, South of Knorr street, $5,500. Architect, private plans. Owner, Daniel J. Gercke, 6938 Tulip street, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, hot water heat. Owner will build.

Apartment (alts.), 1414 West Allegheny avenue, $3,000. Architect, private plans. Owner, Y. D. Sisler, on premises. General interior alterations. Owner will build.

Store (alts. and add.), Sixth and South streets, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owners, M. Silverman & Son, on premises. Brick, 1 story, 20x25 feet, slag roof, maple floors, steam heat, electric light, rolled steel sash, metal lath. Architect taking bids due August 4th.

Miscellaneous Work, Philadelphia. Owners, Bureau of Water, City Hall, Philadelphia. Low bidders: Laying 6-, 8-, 12-in. water pipe, A. De Sandro & Sons, 3906 North Fiftieth street, $31,174. Construction of pipe storage yard at Twenty-seventh and Indiana avenue, M. & J. B. McHugh, 892 North Markoe street, $6,873. Furnishing and delivering cast iron pipe, R. D. Wood & Co., 400 Chestnut street, $64,800. Furnishing and delivering fire hydrants, A. P. Smith Mfg. Co., Philadelphia, $19,900. Laying 48-in. and 36-in. steel pipe, J. J. McHugh, 1430 South Penn Square, Philadelphia, 11,105. Furnishing and laying 30-in. pipe line at Walnut Lane ,A. J. Ellis, 5724 North Marshall street, $21,151.50.

Apartment House, Northeast Corner Forty-seventh and Pine streeets, $1,500,000. Architect, private plans. Owner, Clarence Siegel, Forty-seventh and Larchwood avenue, Philadelphia. Brick, steel, concrete and stone, limestone, alternate castone, 6 stories, 385x160 feet (90 apartments), concrete roof, concrete and oak floors, hollow tile, safety treads, roof ventilators, metal weather strips, (8) elevators, waterproofing and dampproofing, iron stairs and work, hollow metal skylights, tile and marble work, metal lath, vapor heat, electric light, boiler house and laundry equipment. Owner ready for sub-bids.

Miscellaneous Work, Philadelphia. Owners, Bureau of Highways, City Hall, Philadelphia. The following were low bidders:

Grading: Chew avenue, Thirteenth to Twelfth street; Frank Mark Cont. Co., Commercial Trust Building, $2,619. Cornwall street, Jasper to Emerald, and Fairhill street, Wingohocking to Annsbury, $1,106.36; Thomas L. Flannigan, 1204 East Montgomery avenue.

Asphalt Paving: Second street, Mentor to Roosevelt Boulevard, $5,847.50; Water street, Tabor road to Clarkson avenue, $4,178.25; Magee streeet, Torresdale avenue to Rulip street, $10,555.90; "C" streeet, Ruscomb street to Eleanor street, $35,021.60; Eastern Paving Co., Colonial Trust Building, Philadelphia. Allegheny avenue, Chatham to Miller street, $21,265.88; Wakeling street, Horrocks to Large street, $6,214.75; Mascher street, Tioga to Venango street, $4,139.66; Fillmore street, Oakland to Leiper streeet, $6,557.42; Barber Asphalt Paving Co., Land Title Building, Philadelphia.

Granite Block Paving: Watts street, Girard avenue to Thompson street, $4,405; Mazzola & Leone Paving Co., Philadelphia. Second street, Wyoming avenue to Mentor street, $5,917; Fish-Rutherford Co., Real Estate Trust Building. Green street, Nineteenth to Twentieth, $7,934.37; United Paving Co., Colonial Trust Building.

Bituminous Macadam Paving: Robbins street, Rising Sun avenue to graded portion east. Curtiss Brothers, Tacony, Phliadelphia.

Residence (alts.), 1819 Pine street, Philadelphia. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, Mrs. Elizabeth Brister, 1226 Spruce street, Philadelphia. Brick work, iron work, tile work, carpentry, mill work, oak floors, plastering, painting, glazing, electric work, plumbing, hot water heat, repairing roof. Owner taking bids.

Residences (5), Broad and Blavis streets, Philadelphia, $58,000. Owners, Rothman & Abramovitz, 4252 Parkside avenue, Philadelphia. Brick, 3 stories, 20x60 feet, 16x60 feet and 18x21 feet, 15x38½ feet, slag roof, oak and pine floors, hot water heating, electric lighting. Owners will build.

Factory (add.), 850 North Third street, Philadelphia, $6,000. Owners, Colonial Ice Cream Co., Fourth and Poplar streets, Philadelphia. Brick, 1 story add., 58x100 feet, cement floors, slag roof. Owners will build.

Residences (26), 5832-82 North Marshall street, $4,000 each. Architect, private plans. Owner, Walter S. Bauer, 5802 North Fifth street, Philadelphia. Brick, 2 stories, 15x26 feet, 10x10 feet, slag roof, tile work. Owner will build.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 27, 1922. Sealed Proposals will be opened in this office at 3 P. M., August 28, 1922, for remodeling in the United States Post Office, Raleigh, N. C. Drawing and specifications may be obtained from the Custodian of the building or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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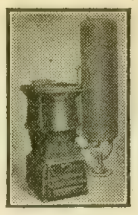
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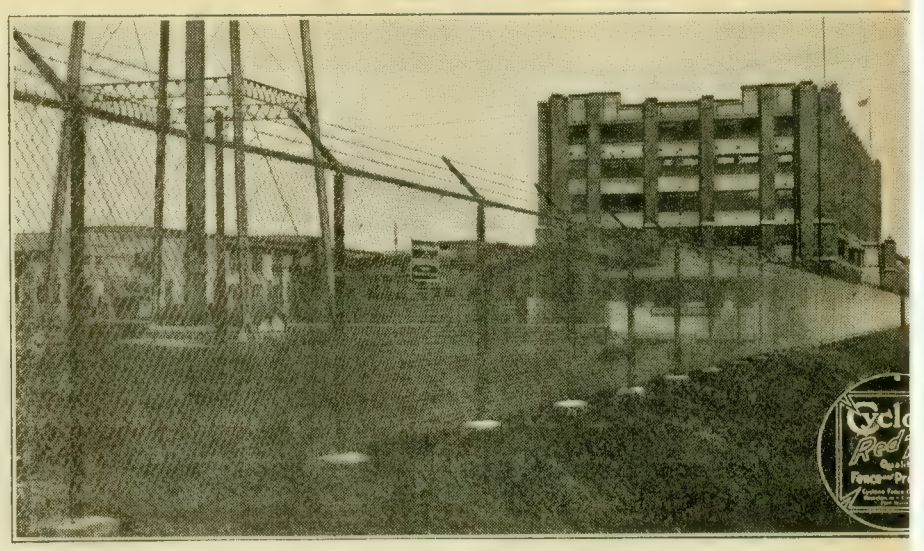
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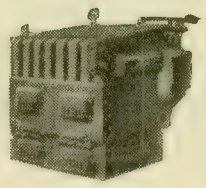
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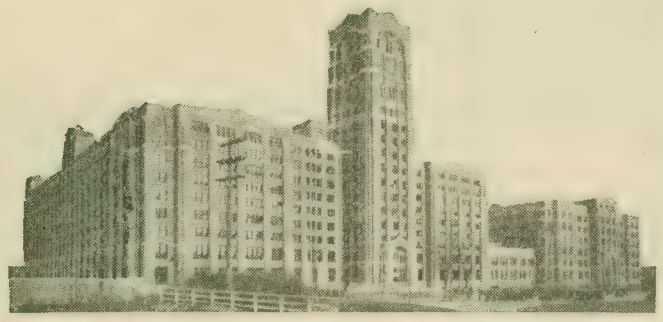


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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Service Building, Northeast Corner Thirty-first and Thompson streets, $200,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Hurley Motors Co., 219 North Broad street, Philadelphia. Brick, steel, 2 stories, 204x110 feet, slag roof, cement and wood block flors, hollow tile, roof ventilators, waterproofing and dampproofing, ornamental iron work, bond, rolled steel and kalamein doors, rolled steel sash, metal lath (heating, lighting, plumbing reserved). Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Sales and Loft Building, 207-09 North Broad street, Philadelphia. Architect, private plans. Owners, Chas. S. Reyburn and W. C. Bailey, Thirty-second and Allegheny avenue, Philadelphia. Concrete, steel and limestone, 6 stories, basement and mezzanine, 40x100 feet, slag roof, concrete floors, hollow tile, elevators, steam heat, electric light, marble and terrazzo work, sheet metal sash, alternate for rolled steel sash, rolled steel skylights, floor hardener (alternate artificial stone). Contract awarded to William Steel & Sons Co., 1600 Arch street, Philadelphia.

Building (alts. and add.), 1513 Walnut street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Denny & Denny, on premises. Brick and steel, 1 story, 39x65 feet, slag roof, maple floors, rolled steel sash, hollow metal skylights, bond, iron work (heating, lighting and plumbing reserved), metal lath. Contract awarded to Potts Brothers & Cooperson, 129 North Eleventh street.

Store and Offices (add.), 1521 Walnut street, $10,000. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Mrs. C. P. Clyde, care of architect. Brick, 1 story, 20x60 feet, cut stone and steel, steam heat, electric light, metal lath, tile and marble work, slag roof, composition and oak floors, plastering, painting, glazing, plumbing, bond. Contract awarded to Thomas Strachan, 5108 Hadfield street.

Apartment Houses (6), Frankford avenue and Leiper streets, Philadelphia. Architect, private plans. Owner, name withheld. Brick and steel, 3 stories, 25x90 feet each, slag roof, oak and yellow pine floors, tile and marble work. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia, who are taking sub-bids. Plans may be seen at office of F. W. Mark Cont. Co., 2820 North Twenty-first street, Philadelphia.

Garage, Twenty-fifth and Delancy streets, Philadelphia. Architect, private plans. Owners, Evening Bulletin, Juniper and Filbert streets, Philadelphia. Reinforced concrete, 2 stories (future 4 stories), 285x91 feet, slag roof, cement floors, steam heat, electric light, elevators, rolled steel sash and skylights, floor hardener. Contract awarded to William Steele & Sons Co., 1600 Arch street.

General Construction and Improvements to Observation Building, Second and Luzerne streets, Philadelphia, $31,257. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Philadelphia General Hospital, Department of Public Health, care of C. L. Furbush, M. D., Director, 584 City Hall, Philadelphia. Concrete floors, metal lath, tile and marble, steel partitions, waterproofing, bond, terra cotta (plumbing and electric separate bids). Contract awarded to Mitchell-Houseworth, Inc., 2512 North Twenty-seventh street.

Factory, Southwest Corner Tenth and Bainbridge streets, Philadelphia, $90,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers, Inc., Third and Spruce streets, Philadelphia. Brick, slow-burning, 4 stories, 84x109 feet, slag roof, pine, compositioin and concrete floors, (1) elevator, rolling steel doors, rolled steel sash, electric light, steam heat, reinforced concrete work. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Hospital (alts. and add.), 1307-09 South Broad street, $30,000. Architect ,Paul Monaghan, 1218 Chestnut street, Philadelphia. Owners, Italian Hospital, on premises. Brick, steel, 2 stories, 16x32 feet, slag roof, concrete floors, dumb waiter, painting, glazing, electric work, tile and marble work, terrazzo work (heating and plumbing reserved), iron work. Contract awarded to William Cochran ,602 North Nineteenth street, Philadelphia.

Post Office (alts.), Ninth and Market streets, Philadelphia, $5,295. Architect, James A. Wetmore, Supervising Architect, Washington, D. C. Owners, United States Government, care of Custodian of Site, Philadelphia. Changes and repairs to partitions. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

Residence (alts. and add.), 3119 Penn street, Germantown, $5,000. Architect, J. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Henry G. Reifsnyder, Manheim Apartments, Philadelphia. Brick, hardwood floors, hot water heat (heating, plumbing, tile work, electric work, painting, decorating and hardwood floors reserved). Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

Building, 15 North Thirteenth street, Philadelphia, $10,000. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, M. Simon & Co., 39 North Thirteenth street, Philadelphia. Carpentry, mill work, plastering, plumbing, electric light, tile work, iron work, sheet metal. Contract awarded to George W. Thayer, 109 North Camac street, Philadelphia.

Office (add.), 1664 Foulkrod street, Philadelphia, $6,500. Architect, private plans. Owner, Harry T. Adams, 1660 Foulkrod street, Philadelphia. Brick, 1 story, 32 feet 9 inches x 34 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Thomas Summerfield, 1673 Foulkrod street.

Business Building, 1913 Walnut street, Philadelphia, $8,000. Architect, Charles W. Gilmore ,803 Godfrey avenue, Philadelphia. Owner, M. Demay, 1940 North Thirteenth street, Philadelphia. New front and general alterations. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Garage, 4941-43 Lancaster avenue, Philadelphia. Architect, private plans. Owners, Tate Brothers, 4854 Lancaster avenue, Philadelphia. Brick, 1 story, 141x30 feet, slag roof, cement floors, roof ventilators, steam heat, electric light, tile work, hollow metal skylights, ornamental iron work. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

Stores and Garage, South side Girard avenue, West of Twenty-seventh street, $30,000. Architect, private plans. Owner, Benjamin Weckerly, 4600 North Ninth street, Philadelphia. Brick, terra cotta, cut stone and steel, 1 story, 80x40 feet, 80x60 feet, slag roof, cement and tile floors, hot water heat, steel sash, electric light, iron work. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Residences (2), South side Clearview street, East of Mt. Pleasant, $13,000 each. Architect, private plans. Owners, H. Fleming and J. H. Roberts, Chestnut Hill, Pa. Hollow tile and stucco, 3 stories, 26x50 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work, iron work. Contract awarded to Marshall & Pennell, engineers, 1524 Chestnut street.

Building (alts. and add.), 2524 West Girard avenue, $10,000. Architect, Karl F. Otto, 5802 North Fifth street, Philadelphia. Owner, G. Percy Fox, on premises. Brick, 3 stories, 18x21 feet and 17x23 feet, slag roof,

tile work, electric lighting, hot water heating. Contract awarded to P. Haibach Cont. Co., 1261 North Twenty-sixth street.

Garage, Southeast Corner Front and Courtland streets, Philadelphia, $7,500. Architect, private plans. Owner, Mrs. Bessie Bauman, 2407 North Broad street, Philadelphia. Brick, 2 stories, 38x90 feet, slag roof, cement floors, electric lighting. Contract awarded to Harry Pilling, 2270 Ruffner street, Philadelphia.

Building (add. and alts.), 3644 Chestnut street, Philadelphia, $6,000. Architect, John Irwin Bright, Otis Building, Philadelphia. Owner, Joseph Rosoff, 1020 Pine street, Philadelphia. Brick, 1 story add., 12x12 feet, slag roof, tile work, oak floors. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Store, 5526-28 North Fifth street, Philadelphia, $19,500. Architect, private plans. Owner, Allen F. Myers, 5524 North Fifth street, Philadelphia. Brick, 1 story, 30x98 feet, slag roof, yellow pine floors, steam heat, electric light, metal ceilings, metal lath. Contract awarded to Stewart Brothers, 2526 North Orkney street, Philadelphia.

Laundry (add.), Fifty-eighth and Thomas avenue, Philadelphia, $7,500. Architect, private plans. Owners, Baptist Orphanage, on premises. Brick, steel, 1 story, 40x50 feet, slag roof, cement floors. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Residence and Store (alts. and add.), Southwest Corner Chew and Chelten avenue, $12,800. Architect, private plans. Owner, A. J. Maier, on premises. Brick, 3 stories, 10x36 feet, and 1 story, 28x36 feet, sla roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to John F. Carberry, 5729 McMahon street.

Residences (4), South side Decatur street, West of Cottage, $24,000. Architect, private plans. Owner, George C. Potts, Holmesburg, Philadelphia. Brick, 2 stories, 18x15 feet, 19x17 feet, slag roof, oak and pine floors, electric light, tile work. Contract awarded to Chancellor Day, 3503 Decatur street.

Residence and Store (add.), 804 South Fourth street, $7,800. Architect, private plans. Owner, Nathan Colton, on premises. Brick, 3 stories, 15x48 feet, slag roof, electric lighting. Contract awarded to M. Kravitz, 823 North Marshall street, Philadelphia.

Blacksmith Shop and Shed, 1526-28-30 North Twenty-sixth street, $7,000. Owners, Supplee-Wills-Jones Co., 1521 North Twenty-sixth street, Philadelphia. Brick, 1 story, 54x86 feet, slag roof, cement floors, iron work. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Residence (add.), 4226 Spruce street, Philadelphia, $4,000. Architect, private plans. Owner, Levi L. Rue, on premises. Brick, 2 stories, 14x17 feet, slag roof, oak and pine floors. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Residence, West side Van Dyke street, North Avendell street, $3,500. Architect, private plans. Owner, William W. Nedball, 2016 North Eleventh street, Philadelphia. Brick, 2 stories, 20x40 feet, slag roof, oak and pine floors. Contract awarded to Chancellor Day, 3503 Decatur street.

Garage (add.), Southwest Corner Wissahickon avenue and Upsal street, $3,000. Architect, Frank Seeburger, 1524 Chestnut



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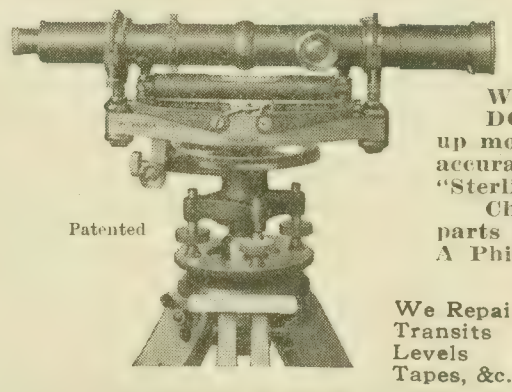
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street, Philadelphia. Owner, J. H. Earley, on premises. Stone, 1 story, 8x15 feet, slate roof, cement floors. Contract awarded to William J. Gruhler Co., 219 High street.

Garage (add.), 5808 Arch street, Philadelphia, $5,000. Architect, private plans. Owner, E. D. Mellville, 22 North Fifth street, Philadelphia. Brick, 2 stories, 47x97 feet, slag roof, cement floors. Contract awarded to Felix Claro, 5313 Malcolm street, Philadelphia.

Residence, East side Blue Grass road, North of Grant avenue, $5,000. Architect, private plans. Owner, Howard Dudley, Holmesburg, Pa. Frame, 2 stories, 32x24 feet, shingle roof, oak and pine floors. Contract awarded to R. W. Matthews, 8032 Montague street, Philadelphia.

Residence and Store, East side Fifth street, South of Ruscomb street, $5,200. Architect, private plans. Owner, James S. Butler, 4923 North Fifth street, Philadelphia. Brick, 2 stories, 20x45 feet, slag roof, hot water heat, electric light. Contract awarded to G. V. Simon, 4908 North Fourth street, Philadelphia.

Residence (alts. and add.), Northwest Corner Germantown avenue and Bell Mill road, Philadelphia, $5,000. Architect, private plans. Owner, Charles S. Hebard, on premises. Brick, 2 stories, 17 feet 8 inches x 19 feet 10 inches, slag roof, oak and pine floors. Contract awarded to A. E. Martin, 1207 Race street, Philadelphia.

Building (add.), Southeast Corner Forty-fifth and Market streets, Philadelphia, $4,000. Architect, T. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, A. M. Gunnis, 3600 Chestnut street, Philadelphia. Brick, 1 story, 48½x50 feet, slag roof, cement floors, steam heat, electric lighting. Contract awarded to Gunnis Paving & Const. Co., 4420 Market street.

Residence, 4945 Mulberry street, Philadelphia, $4,500. Architect, private plans. Owner, Allen Lock, 4949 Frankford avenue, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, oak and pine floors. Contract awarded to George Krewson, Cheltenham, Pa.

Residences (2), 1108-10 Wakeling street, $5,000 each. Architect, private plans. Owner, Robert E. Erwin, 4510 Frankford avenue, Philadelphia. Brick, 2 stories, 16x54 feet, slag roof, oak and pine floors. Contract awarded to Edward W. Taylor, Oxford pike and Wakeling.

Garage, West side Ditman street, South of Comly street, $4,500. Architect, private plans. Owner, Jacob Aulel, on premises. Brick, 1 story, 18x18 feet, 16x82½ feet, slag roof, cement floors. Contract awarded to George W. Crossley, 2264 Bridge street, Philadelphia.

Residence and Store (alts. and add.), 2146 East Arazono street, $5,000. Architect, private plans. Owner, John J. Carroll, 2118 East Dauphin street. Brick, 3 stories, 16x32 feet, slag roof, oak and pine floors. Contract awarded to Walter G. Hunt, 2827 North Sixth street, Philadelphia.

Stores (5), 5253-55-57-59-61 Germantown avenue, $13,468.15. Architect, private plans. Owner, Thomas Parris, 728 Church lane, Philadelphia. Brick, 1 story, 13½x37 feet, slag roof, plate glass, hot water heat, electric light, yellow pine and oak floors. Contract awarded to S. D. Billingsley, 1230 East Chelten avenue.

Residence and Store (add.), 4824 Frankford avenue, $8,500. Architect, private plans. Owner, Harry D. Wilde, on premises. Brick, 3 stories ,18x7½ feet, slag roof, electric work. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

Garage, Northwest Corner Chew street and Washington lane, $16,000. Architect, private plans. Owner, J. F. Corman, Sixty-first and Larchwood avenue, Philadelphia. Brick, 1 story, 100x115 feet, slag roof, cement floors, steel sash. Contract awarded to C. F. Hartman, 1204 Chelten avenue, Philadelphia.

Library (alts.), West side Thirty-fourth street, South of Walnut street, $14,000. Architects, Furness, Evans Co., 315 South Fifteenth street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets. New concrete floor, brick work. Contract awarded to William R. Chapman & Sons, 1506 Washington avenue.

Grand Stands (2), Northwest Corner Manheim and Morris streets, $10,000. Architect, private plans. Owners, Germantown Cricket Club, on premises. Frame, 64x207 feet, carpentry work. Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

Building (alts.), 235 Chestnut street, Philadelphia, $3,000. Owners, John Farnum Co., on premises. General interior alterations. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Residence and Store (alts.), 5537 West Girard avenue, $2,000. Architect, private plans. Owners, American Stores Co., Nineteenth and Hamilton streets, Philadelphia. General interior alterations. Contract awarded to Charles Egrich, 667 North Fifteenth street, Philadelphia.

Apartment (alts.), 5614 Girard avenue, Philadelphia, $2,000. Architect, private plans. Owner, Mrs. C. C. Small, Fifty-third and Girard avenue. General interior alterations. Contract awarded to N. Statneko, 5331 Girard avenue, Philadelphia.

Shed and Alts., 2907 West Girard avenue, Philadelphia, $2,200. Architect, private plans. Owner, Harry Selber, 2545 North Natrona street, Philadelphia. General alterations. Contract awarded to Joseph Sweet, 2547 North Douglass street.

Residences (3) (add.), 1221-23-25 Panama street, $3,200. Architect, private plans. Owner, J. T. Junker, 314 Camac street, Philadelphia. Brick, 1 story, 9x7 feet, slag roof, pine floors. Contract awarded to J. Jones Davies, 652 North Seventeenth street, Philadelphia.

Residence and Store (alts. and add.), Northeast Corner Tenth and Fitzwater, $6,000. Architect, private plans. Owner, Antonio Matti, on premises. Brick, 3 stories, 22½x22 feet, slag roof, oak and pine floors. Contract awarded to D. Iero, 519 Christian street, Philadelphia.

Apartment House (alts.), 1617 Oxford street, Philadelphia, $5,600. Architect, private plans. Owners, Memorial Church of Our Redeemer, Sixteenth and Oxford streets. General alterations. Contract awarded to A. Raymond Raff Cont. Co., 1635 Thompson street.

Garage (add.), 5301 Catharine street, Philadelphia, $4,000. Architect, private plans. Owner, F. H. Mahikian, on premises. Brick, 1 story, 28½x29½ feet, slag roof, cement floors. Contract awarded to W. K. Henkies, 9501 Germantown avenue.

Garages (3), 5202-04 Morris street, Germantown, $2,080 each. Architect, private plans. Owners, J. J. Crowley and W. I. Roy, on premises. Brick, 1 story, 50x125 feet, slag roof, cement floors. Contract awarded to Joseph Varsallon, 4931 Wayne avenue, Philadelphia.

Residence (add.), Northwest Corner Crefeldt and Moreland streets, $3,000. Architect, private plans. Owner, F. Eugene Newbold, on premises. Brick, 2 stories, 18x16 feet, slag roof, yellow pine floors. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

Residence (add.), 5705 Chester avenue, Philadelphia, $2,600. Architect, private plans. Owner, George E. Geyer, on premises. Brick, 1 story, 16x16 feet, slag roof, yellow pine floors. Contract awarded to George Adams, 5905 Chester avenue, Philadelphia.

Office (alts.), 1823-25-27 Walnut street, Philadelphia, $2,500. Architect, private plans. Owners, Philadelphia Art Alliance, 1823 Walnut street, Philadelphia. General interior alterations. Contract awarded to Owen Fogarty, 3936 Mt. Vernon street, Philadelphia.

Residence and Store (add.), 2610 Orthodox street, $2,425. Architect, private plans. Owner, W. Stonylwski, on premises. Brick, 2 stories, 16x26 feet, slag roof, yellow pine floors. Contract awarded to D. Pezzillo & Son, 3347 Almond street, Philadelphia.

Residence and Store (add.), 2608 Orthodox street, $2,425. Architect, private plans. Owner, J. Baron, on premises. Brick, 2 stories, 16x26 feet, slag roof, yellow pine floors. Contract awarded to D. Pezzillo & Son, 3347 Almond street.

Residence and Store (alts.), 262 South Twentieth street, $2,500. Owner, Joseph A. McGlase, 262 South Twentieth street. General interior alterations. Contract awarded to John J. Gaffney, 1812 Master street, Philadelphia.

Factory, 300-02-04 South Third street, Philadelphia. Architect, private plans. Owners, Congress Cigar Co., Third and Spruce streets, Philadelphia. Reinforced concrete, 8 stories and basement, 70x140 feet, slag roof, concrete floors, steam heat, electric light, elevators, marble work, rolled steel sash, fire doors. Contractawarded to John N. Gill Const. Co., Otis Building, Philadelphia.

Residences for Internes, Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, C. L. Furbush, M. D., Director, 584 City Hall, Philadelphia. Brick, steel and cut stone, 3 stories, 83x146 feet, slag roof, oak and pine floors, elevators, dumb waiters, metal lath, tile, marble and terrazzo work, kalamein doors, iron work and stairs, terra cotta. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, $293,599. Plumbing to N. Connolly, 1404 North Eighteenth street, $19,635. Heating to Charles Monday & Son, 1318 Olive street, $25,965. Electrical to Electric Const. Co., Wilmington, Del., $11,765.

Residences (2), North side Levick, West of Hasbrook avenue, $13,500. Architect, private plans. Owner, Mrs. N. T. Patton, 227 South Forty-ninth street, Philadelphia. Frame, 3 stories, 16x17½ feet, 19x23 feet, electric lighting. Contract awarded to H. S. & S. E. Slack, 6311 Woodlawn avenue, Fox Chase, Philadelphia.

Garages, West side Hutchinson, South of Rising Sun avenue, $4,500. Architect, private plans. Owner, Frank F. Herrman, 3638 North Ninth street, Philadelphia. Brick, 1 story, 18x100 feet, slag roof, cement floors. Contract awarded to Edward B. Miller, 615 Pike street, Philadelphia.

Residence, Southeast Corner Thompson and Lefevre streets, $6,000. Architect, private plans. Owner, Martin Novak, 2622 Lefevre street, Philadelphia. Brick, 2 stories, 20x58 feet, 20x28 feet, slag roof, hot water heat. Contract awarded to Frank Sikoski, 4478 Edgemont street.

Tenement (alts. and add.), 1227 Lindley avenue, $4,500. Architect, private plans. Owner, E. L. Beling, 1227 Lindley avenue, Philadelphia. Brick, 1 story, 21x17 feet, 16x7 feet, slag roof, pine floors. Contract awarded to Beling & Bush Co., Drexel Building, Philadelphia.

Rooming House (add.), 5501 Lansdowne avenue, $7,300. Architect, private plans. Owner, R. J. Ball, on premises. Brick, 1 story, 13x25 feet, slag roof, pine floors, electric light. C ontract awarded to J. D. Fisher, 6426 Thompson street, Philadelphia.

Residence (add.), 2008 Pine street, Phila-

delphia, $2,000. Architect, private plans. Owner, N. Fortescue, on premises. Brick, 1 story ,10x8 feet, slag roof. Contract awarded to George W. Wagoner, 2042 Rittenhouse street.

Pennsylvania Construction News

High School, Jenkintown, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School Board, Borough of Jenkintown, Pa. Brick, cut stone, 2 stories, 188x60 feet, wing 64x35 feet, slate roof, cement, composition and yellow pine floors, hollow tile, metal lath (heating, ventilating and electric work reserved), rolled steel skylights, tin clad doors, ornamental iron work. Revised plans in progress. Will take new bids in fall.

Double Residence, Bethlehem, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Mrs. Lavine Fogel, Bethlehem, Pa. Brick, 2½ stories, 54x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Church (alts. and add.), Sunbury, Pa. Architect, William H. Lee, 34 South Seventeenth street, Philadelphia. Owners, First Reformed Church of Sunbury, Rev. C. E. Roth, 129 Chestnut street, Sunbury, Pa. Brick. Preliminary sketches in progress.

Residence, Bala, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, name withheld. Hollow tile or stone, 2½ stories, 25x50 feet, slate roof, oak floors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in ten days.

Residence, Merion, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 35x125 feet, slate roof, oak floors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in ten days.

Residence, Central avenue and Cottman street, Cheltenham, Pa. Architect, private plans. Owner, Frank Krewsen, Cheltenham, Pa. Stone, 2½ stories, 30x42 feet, asbestos shsingle roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for bids.

Factory, East Lancaster, Pa., $70,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers, Third and Spruce streets, Philadelphia. Brick, joist construction, 3 stories and basement, 80x176 feet, metal roof, pine and maple floors, elevators, roof ventilators, steam heat, electric light, rolled steel sash, hollow metal skylights, fire doors, iron work. Ready for bids.

High School, Ambler, Pa., $120,000. Architects, S. S. Conver and R. C. Winter, 11 South Sixteenth street, Philadelphia. Owners, School Board of Ambler, E. H. Fruist, treasurer, Ambler. Brick and steel, 2 stories and basement, 67x105 feet (heating, plumbing and electric work reserved). Revised plans in progress. Owners will take bids in three weeks.

Nurses' Home, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Sacred Heart Hospital, care of Monsignor Masson, Allentown. Brick, 4 stories, 37x105 feet, slag roof, hardwood floors, electric light, metal lath, tile work. Architects ready for bids.

Church (alts. and add.), Bethlehem, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owners, First Moravian Church, care of H. Thatcher, Bethlehem, Pa. Brick, stone, 1 story, 15x15 feet, interior decorations, leaded glass, ornamental plaster. Owners ready for bids.

Garage, Allentown, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, I. X. L. Fire & Supply Co., North Sixth street, Allentown, Pa. Brick, steel, mill work, 3 stories, 62x40 feet, slag roof, concrete and wood floors, steam heat, electric light, roof ventilators, floor hardener. Owner will take bids in one week.

Residences (10), Narberth, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owners, W. D. & H. T. Smedley, Narberth, Pa. Stone and frame, 2½ stories, 24x30 feet, shingle roof, oak floors, hot water heat, electric light. Owners taking sub-bids.

Church (alts.) and Sunday School, Mechanicsburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Trinity Lutheran Church, Rev. E. M. Grove, Mechanicsburg. Brick, 2 stories and basement, 58x68 feet, slate and composition roof, hardwood floors, hollow tile, vapor heat, electric light, general alterations. Owner will take bids next week.

Apartments (3) (add.), 120 South Eighth street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, George K. Kessler, 118 South Eighth street, Reading, Pa. Brick, 3 stories, 20x90 feet, tin roof, pine floors, hot water heat, electric light, tile work. Architect ready for bids due August 12th.

Warehouse, Hazleton, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Hazleton Wholesale Grocery Co., on premises. Mill construction, 2 stories, 40x76 feet, slag roof, concrete floors, electric light, rolled steel sash. Architect ready for bids due August 12th.

Residence and Garage, Penfield, Pa. Architect, J. Linnard Connarroe, 225 South Sydenham street, Philadelphia. Owner, M. H. Clark, 420 West Hortter street, Philadelphia. Hollow tile and stucco, 2½ stories, 46x28 feet, garage, 1½ stories, 16x20 feet, shsingle roof, composition, cement and yellow pine floors, hollow tile, metal lath, hot water heat, electric light, tile work. Architect taking bids due August 9th.

Church, Ardmore, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, First Presbyterian Church, Ardmore, Pa. Stone, cut stone and steel, 1½ stories and basement, 103x43 feet, slate roof, oak floors, steam heat, electric light, metal lath, tile work, bond, ornamental iron work. Architects taking bids due August 4th.

Sunday School Chapel, Swedeland, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Alan Wood Iron & Steel Co., Widener Building, Philadelphia. Brick, cut stone, stucco and steel, 1½ stories, 69x43 feet, slate roof, composition and mineral floors, metal lath, tile work, metal ceilings, dampproofing, bond, iron work. Architect taking bids due August 6th.

Residence, Chelten Hills, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Esther Heacock, care of architects. Frame, 2½ stories, 25x38 feet, shingle roof, pine floors, hot air heat, electric light, tile work. Architects taking bids due August 4th.

Residence, Lewistown, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, L. W. Culbertson, on premises. Brick, 2½ stories, 50x30 feet, composition roof, hardwood floors, vapor heat, electric light. Owner taking bids.

School, West York, Pa. Architects, Hamme & Witman ,City Bank Building, York, Pa. Owners, West York School Board, H. W. Lauer, secretary, York, Pa. Brick, 2 stories, 4 rooms, slate roof, hardwood floors, electric light (heating, plumbing and electric work reserved). Owners taking bids due August 4th.

Orphanage, Cheney, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Home for Destitute Colored Children, care of architects. Stone, 2½ stories, 50x100 feet, slate roof, electric lighting. Architects taking bids due August 5th.

School (add.), Cheltenham, Pa. Architect, Herbert C. Wise, 1416 Chestnut street, Philadelphia. Owners, School District of Cheltenham Township, E. B. Scarborough, secretary, Elkins Park, Pa. Brick, fireproof, 1 story and basement, 35x75 feet, slag roof, bond (heating, ventilating separate bids), electric light. Deposit of $25.00 required. Refunded. Owners taking bids due August 4th at noon.

Residence, Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Benjamin Hutfilter, Kurtz Restaurant, 40 West Broad street, Bethlehem, Pa. Brick, 2½ stories, 26x24 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids due as soon as possible.

Theatre, 718 North Seventh street, Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, People's Theatre Co., Inc., 1767 Broadway, New York. Brick, steel, fireproof, 1 story, 60x120 feet, slag roof, hardwood floors, electric light, tile and marble work, roof ventilators, skylights. Architect taking bids due as soon as possible.

Theatre, New street, Bethlehem, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, People's Theatre Co., 1767 Broadway, New York. Brick, steel, fireproof, 1 story, 40x200 feet, slag roof, hardwood floors, electric light, tile and marble work. Architects taking bids due as soon as possible.

School, North White Hall Township, Lehigh County, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, North White Hall Township School Board, Paul Meckley, secretary. Brick, 2 stories, 12 rooms, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work, safety treads, roof ventilators, waterproofing and dampproofing. Architects ready for bids due August 16th.

Bungalow, Jenkintown, Pa. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owner, Joseph Beatty, Lawndale, Philadelphia. Hollow tile and stucco, 1½ stories, 34x46 feet, asbestos shingle roof, oak floors, hot water heat, electric light, tile work. Architect taking bids due August 7th.

Bank, Stores and Office Building, Tyrone, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Farmers' & Merchants' Bank, Tyrone, Pa. Stone, brick, steel, 5 stories, 100x60 feet, slag roof, hardwood, pine and cement floors, hollow tile, roof ventilators, metal window guards, bronze work, tile and marble work (plumbing, heating, lighting, elevators and vaults separate bids). Architect taking bids due at Tyrone Bank, August 4th, at 9 A. M.

Bungalow and Garage, Broomall, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, Dr. J. G. Thomas, Newtown Square, Pa. Hollow tile and stucco, 1½ stories, 28x33 feet, garage, 1 story, 18x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Factory, Hazleton, Pa. Architects, Tilghman H. Moyer Co., 824 Hamilton street, Allentown. Owner, J. H. Janowitch, 54 White street, New York. Steel and frame, brick, 3 stories, 65x125 feet, slag roof, electric light, roof ventilators, rolled steel sash, fire doors. Plans in progress. Architects will build.

Residences (9), East Lansdowne, Pa. Architect, Jesse L. Stetler, 1484 North Fifty-second street, Philadelphia. Owners, Mench & Manley, Fifty-ninth and Cedar avenue, Philadelphia. Stone, frame and stucco, 2½ stories, 17x33 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Residence and Garage, Merion, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, Frank H. Maurer, Wayne and Bristol streets, Philadelphia. Stone, 2½ stories, 46x32 feet, garage, 26x22 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Architects taking sub-bids.

Residence and Garage, Overbrook, Montgomery County, Pa., $90,000. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, William T. Galey, Jr., 6446 Sherwood road, Philadelphia. Hollow tile, stone and stucco, 2½ stories, 125x60 feet, garage, 46x26 feet, slate roof, oak and tile floors, metal lath, steam heat, electric light, tile and marble work. Architects ready for sub-bids.

Bank, Sellersville, Pa. Architects, Tilghman H. Moyer, 824 Hamilton street, Allentown, Pa. Owners, Sellersville National Bank, Dr. C. D. Fietz, on premises. Brick, steel, 1 story, 71x31 feet, built-up asbestos roof, terrazzo floors, steam heat, electric light, hollow tile, metal lath, tile, marble and terrazzo work, steel grill, architectural terra cotta, vault, ornamental iron wrok. Architects taking sub-bids.

Residences (6), Seventy-third street and West Chester pike, Upper Darby, Delaware County, Pa. Architect, Jesse L. Stetler, 1484 North Fifty-second street, Philadelphia. Owners, Home Builders' Co., 1482 North Fifty-second street, Philadelphia. Stone, frame and stucco, 2½ stories, 24x30 feet each, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Stores (2) and Apartments (2), Brookline, Delaware County, Pa. Architect, Jesse L. Stetler, 1484 North Fifty-second street, Philadelphia. Owner, George Graeney, 5524 Media street, Philadelphia. Brick, 2 stories, 33x60 feet, slag roof, oak floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Residence, Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, A. B. Turner, 633 Prospect avenue, Bethlehem, Pa. Brick, 2½ stories, 32x22 feet, tile roof, hardwood floors, hot air heat, electric light, tile work. Owner taking sub-bids.

Residence (alts. and add.), Radnor, Pa. Architect, Louis H. Rush, 34 South Seventeenth street, Philadelphia. Owner, H. C. Higgins, Radnor, Pa. (Heating, plumbing, oak floors reserved), brick, concrete work, steel, tile and marble work, plastering, iron work, painting, glazing. Architect taking revised bids due August 4th.

Pennsylvania Contracts Awarded

Junior Hih School, Ardmore, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Lower Merion School Board, care of Mr. Hamilton, Merion Title & Trust Co., Ardmore, Pa. Brick, cut stone, steel, 2 stories and basement, 232x100 feet, slag roof, cork, tile, mastic, cement and maple floors, hand elevator, metal lath, tile and marble work, rolled steel skylights, bond, iron work, terra cotta. Contracts awarded to following low bidders: (General) Franklin M. Harris & Co., 1520 Parrish street, Philadelphia, $446,482. Heating, S. Faith & Co., 2427 Pennsylvania avenue, Philadelphia, $59,500. Plumbing, Thompson Brothers, 520 Buttonwood street, $23,273. Ventilating, S. Faith & Co., 2427 Pennsylvania avenue, $4,980. Electrical, Bryn Mawr Electrical Co., Bryn Mawr, $8,995.

Central High School (add.), Scranton, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Associate architects, Sprague & Siocum, 167 West Thirteenth street, New York. Brick, terra cotta, limestone and steel, (2) wings, 26x82 feet, 12x50 feet, composition and Spanish tile roof, concrete and maple floors, hollow tile, metal weather strips, waterproofing, floor hardener, bond, fire doors, kalamein doors, marble and terrazzo, metal lath. Contract awarded to Peter Stipp, Colfax and Pine streets, Scranton, Pa.

Residence, Cynwyd, Pa., $20,000. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, Clarence H. Vanderbeck, Cynwyd, Pa. Stone, 2½ stories, 64x24 feet, 1½ stories, 21x24 feet, shingle roof, oak, pine, and cement floors, iron work, bond, tile work, hot water heat, electric light. Contract awarded to John E. Kearney, 34 South Seventeenth street, Philadelphia.

Town Hall, Bridgeport, Pa., $26,700. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Borough of Bridgeport, William Kinsley, chairman of Building Committee, Bridgeport, Pa. Brick, steel, 3 stories, 45x100 feet, slate roof, maple floors, metal lath, iron work. Contract awarded to Kelly & Kinsella, Bridgeport, Pa.

Manufacturing Building, Bridgeport, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, James Lees & Son, Bridgeport, Pa. Reinforced concrete, steel and brick, 5 stories, 132x103 feet, slag roof, maple and cement floors, hollow tile, heating, lighting, safety treads, rolled steel and kalamein doors, bond, floor hardener, ornamental iron work, terra cotta. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Church and Sunday School, Trexlertown, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Union Lutheran Reformed Church, care of architects. Stone, 1 story and basement, 57½x130 feet ,slate and composition roof, hardwood floors, vapor heat, electric light, hollow tile. Contract awarded to E. F. Peters & Son, Allentown, Pa.

Residence and Garage, Noble, Pa., $20,000. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owner, John T. Brugger, 505 Chestnut street, Philadelphia. Brick, 3 stories, 40x30 feet, slate roof, hardwood floors, metal lath, hot water heat, electric light, tile work. Contract awarded to Friel-McLeister, Inc., 2146 East Norris street.

Residence and Garage, Merion, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, Odin Dorr, The Clinton Apartments, Tenth and Clinton streets, Philadelphia. Hollow tile and stucco, 2½ stories and 1½ stories, shingle roof, oak, pine and cement floors, hot water heat, electric light, tile work. Contract awarded to George W. Bottoms, Narberth, Pa.

Residence, Madison street, York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, David Zwaifler, West Market street, York, Pa. Frame, 2½ stories, 30x45 feet, shingle roof, hardwood floors, stone foundations, vapor heat, electric light, tile work. Contract awarded to I. Reindollar & Son, 936 Linden street, York.

Residence and Garage, West Market street, York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, S. G. Gotwalt, 15 South West street, York, Pa. Brick, 2 stories, 32x38 feet, garage, 1 story, 20x24 feet, tile roof, hardwood and concrete floors, vapor heat, electric light, tile and marble work. Contract awarded to J. Crist, York, Pa.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Montour and Northumberland Counties, Route 2, Point Township, Northumberland County, and Mahoning Township and Danville Borough, Montour County, $151,328.20. Contract awarded to D. L. Risser, Lebanon, Pa.

Westmoreland County, Appli. 281, Lower Burrell Township, $13,504.50. Contract awarded to State Const. Co., New Kensington, Pa.

New Jersey Construction News

High School and Gymnasium, Collingswood, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, School Board of Collingswood, N. J. Brick and limestone and steel, 3 stories and basement, 135x150 feet, gymnasium, 1 story and basement, 86x46 feet, slag roof, pine floors, steam heat, electric light, hollow tile, roof ventilators. Architect ready for bids.

Elks' Club, Fowler street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, B. P. O. E., Lodge No. 114, Mr. F. Kinney, Trenton, N. J. Brick, steel, 2 stories, 60x80 feet, slag roof, maple floors hollow tile, metal lath, tile and marble work, steam heat, electric light, ornamental iron work. Architect ready for bids due August 4th.

Store (alts.), 18 North Broad street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Carlton Clothes Store, care of architect. Structural steel, copper front, electric light, plate glass. Architect ready for bids due August 4th.

Main Building (add.), Camden, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Cooper Hospital, Camden, N. J. Cut stone, brick, reinforced concrete and steel, 1 story, 39x56 feet, asbestos asphalt roof, cement floors (finished floors reserved), ornamental iron work. Architects taking bids due August 5th.

Warehouse, Baltic and Delaware avenues, Atlantic City, N. J. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Atlantic City R. R., U. G., Robinson, lessee, Atlantic City, N. J. Brick, terra cotta, 1 story, 100x157 feet, slag roof, yellow pine floors, hollow tile, steam heat, electric light, ornamental iron work. Architect taking bids due August 8th.

Moving Picture Theatre (alts. and add.), Pitman, N. J. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, Hunt's Theatres, Inc., 1220 Vine street, Philadelphia. Brick, stucco, steel, 1 story and balcony, 42x96 feet, slag roof, cement and yellow pine floors (heating reserved), electric light, tile, marble and terrazzo work, metal lath, roof ventilators, kalamein doors, waterproofing, bond, ornamental iron work. Architects taking bids due August 7th.

New Jersey Contracts Awarded

Store and Apartments, Broadway and Benson street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Dr. J. Lynn Mahaffey, 408 Cooper street, Camden, N. J. Brick, cut stone, steel, 3 stories, 57x38 feet, slag roof, composition, pine, oak and cement floors, roof ventilators, steam heat, electric light, metal lath, tin covered doors, bond, iron work. Contract awarded to John M. Yardley, 1716 Sansom street, Philadelphia.

Dairy Building (alts. and add.), 1415 Baltic avenue, Atlantic City. Architect, William H.

Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, Atlantic City, N. J. Carpentry, mill work, painting, plumbing (heating and lighting extensions), bond, iron fence. Contract awarded to M. B. Markland, Guarantee Trust Building, Atlantic City, N. J.

Store and Warehouse (add.), Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owners, Hurley-Tobin Co., 118 North Broad street, Trenton, N. J. Brick, 4 stories, 40x100 feet, slag roof, hardwood floors, hollow tile, freight elevators, electric light, metal lath, rolled steel sash. Contract awarded to J. H. Morris, South Broad and Hudson streets, Trenton, N. J.

Store Building, 1142 Broadway, Camden, N. J. Architect, private plans. Owner, Sigmund Jacobson, 1140 Broadway, Camden, N. J. Brick, limestone, 1 story, 12x80 feet, slag roof, maple floors, tile and marble work, plate glass, ornamental iron work. Contract awarded to Potts Brothers & Cooperson, 129 North Eleventh street, Philadelphia.

Chancel and Boiler House, Pacific and Kentucky avenues, Atlantic City. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Church of the Ascension, Atlantic City, N. J. Brick, pre-castone and steel, 1 story and basement, 65x50 feet, slag and tile roof, pine floors, electric work, metal lath, bond, iron work. Contract awarded to Charles D. Thompson, Pleasantville, N. J.

Miscellaneous Construction News

Church and Sunday School, Dover, Del. Architects, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Dover Presbyterian Church, care of Rev. J. Bursten, Dover, Del. Brick, 1 story. Sketches in progress.

(Continued from Page 488)

determination of what is safe, there is considerable difference of opinion; and a building code should not be the opinion of any one person as to what is safe, but should represent the best opinion and knowledge of those engaged in the building profession. If our codes are prepared on this basis, they cannot be unduly burdensome, because the best judgment of the building profession is a guide that can be considered both practical and reasonable.

In the past, the building business and building codes have been too much affected by men who have no exact knowledge of building construction, but who have had a great deal of experience and know that certain kind of construction is safe and who apply to their operations some rule of thumb regulations. Men of this type have left a very decided impress on the various codes in the country. This has happened in some cities because such persons were prominent in the building industry and in other cases because some cities wanting a building code have taken the work of some other city and copied it blindly, copying both good and bad regulations.

Scientific Knowledge Lacking in Past

The great difficulty with building codes has been the lack of exact or scientific knowledge regarding limitations of strength and fire resistance of materials and construction and also a lack of breadth of vision as to what codes should really do. Very happily, at the present time conditions are changing and a very valuable and important movement is under way to prepare a building code broad enough to cover the entire country.

As in the past the regulations of building codes have been based on the practical knowledge of rule of thumb builders and architects and not on exact scientific knowledge, it can be readily understood why it is that some of the regulations seem too severe, in that they require the use of too large an amount of material. If a practical builder under somewhat unfavorable conditions has had trouble with a wall eight inches in thickness, he will probably conclude that a 12-inch wall should be used and will advocate its use under all conditions. If this same practical builder was a person of greater education, he might be able to distinguish between the cases where the 8-inch wall and the 12-inch wall should be used. This example could be multiplied many times to illustrate the principle and show how some standards of construction have been formed.

Useless Requirements Hamper Building

At the time when these regulations were put into the code, because of the fact that the framers of codes were not broad visioned and far-seeing, the regulations were applicable to only a narrow field, although a broad field of operations were affeected by such regulations. The people who are responsible for the codes have undoubtedly done the best they could, but it is time that we stop for a minute to survey the conditions and find where are are. It is peculiarly necessary for us to do this at the present time, when there is a housing shortage, when building materials and labor are high in cost. If the building codes require more material to be used in the construction of buildings than is really desirable and necessary, this excess material and labor constitutes an economic loss or waste, which is very serious. It means that in some cases that some building operations, which under proper conditions would go ahead, will not be started; it means that the return from the investment in buildings will be decreased; it means that during a time when building costs are high and investors are timid, there will be more or less stagnation in building operations; it means that it will take a longer time to relieve housing shortage; and it means that the city in which there is the greatest amount of unnecessary material used will be handicapped as compared to a city where there is less economic loss. It is certainly true to say that business goes in the easiest channels; or putting it in other words, business goes to those cities where business can be conducted most economically. In a city where there is an excessive amount of money invested in buildings, the cost of doing business will be higher than in a city where buildings are cheaper, other things of couse being equal.

One of the great questions now before the world is reducing the large amount of economic loss or waste. In the matter of eliminating the unnecessary material that goes into the buildings, it can be readily seen that progress can only be made by men who have had proper scientific or engineering training. If all of the regulations of our codes are to be more or less arbitrarily cut down for the purpose of eliminating excess material, the result would be unfortunate because undoubtedly some structures erected under such revised codes would be dangerous and would collapse, causing a loss of life and property. If such revision is properly done by competent men who have the facilities for making proper tests before deciding to revise present-day standards, no such aforementioned bad results will follow. Unless this matter is taken up scientifically, any great change in the codes either would come about as a matter of evolution, which would occupy a considerable amount of time, or would involve a very considerable danger. No community could afford to have it known that its regulations were so loosely drawn that dangerous structures are permitted.

Government Should Prepare Code

The United States Government is particularly well fitted for scientifically examining the regulations of the building codes for the purpose of eliminating all unnecessary or useless material. The Government not only has in its service men qualified for scientific investigations, but also has testing laboratories. Besides this, any statement from the Government that a certain regulation (even though departing from present-day standards) was safe, would have the authority of the Government behind it and no reasonable person would dispute such findings.

It can readily be seen therefore, that the preparation of a national building code, as has been proposed by the Department of Commerce, will bring about a change in existing codes in the best and quickest manner possible. Another thing that will be accomplished by a national code will be the elimination of the large number of conflicting requirements in the codes of the different cities. In most codes there are some provisions that are general in character and are vey much the same in different cities. There are other

provisions that, although they should be the same in different cities and are really general regulations, are yet local in their character; that is to say, they have been introduced as the result of some local opinion or influence and do not reflect the general opinion of the building public of the country. I do not mean by the term "local regulation" that this term should apply to any regulations which are written in a code because of the peculiar topography of the ground surrounding such city or any similar reason.

The reason these local regulations or variations are bad is because there are many articles and materials used in building construction that are manufactured for use all over the country. Where a manufacturer, because of the differing requirements of different cities, must manufacture ten products where one should be enough, there is necessarily an increase in the cost of manufacturing and in the cost of the article to the public, which will require a greater amount of money to do business because the amount of materials carried in stock must be greater. This statement will apply not only to the manufacturer but to the jobber supplying several cities. It is certainly true that any considerable variation in the character or quality of manufactured articles, simply to comply with some building regulations, is not a good thing. There should be established some reasonable standards of quality and manufacture; and, when a manufacturer makes an article that complies with these standards, his material or articles should be acceptable anywhere in the Country.

In the matter of establishing standards for the Country as a whole, it must be admitted that where parts of a building are affected by climate, owing to the great variation in climatic conditions in different parts of the Country, it will be necessary to establish somewhat different standards. This can be done by dividing the Country into various climatic zones and by applying proper standards to each zone. There are many parts of a building, however, that are not affected by climate, and a standard good in one part of the Country should be good in all other parts.

Wiring and Steel Now Standardized

There are already certain regulations affecting building construction that have been thoroughly standardized. For instance, in the regulation of the electrical wiring installation in buildings, the set of rules prepared by the National Board of Fire Underwriters under the leading of the "National Electrical Code" has been generally adopted all over the Country as a basis for regulations. This has been done because of the excellence of the rules and not because of any merit of arrangement or wording; in fact, the arrangement of the rules is not good, and the wording is not well adapted for adoption into a municipal code.

The regulations governing the use of structural steel are very much the same throughout the Country, as the use of structural steel has been very generally standardized because the handbooks that have been printed and widely distributed by the structural steel manufacturers have been in general use for years.

If the cities of the Country have been so ready to accept and use well prepared standards in the case of electrical wiring and structural steel, it appears to me that there will undoubtedly be a similar willingness to adopt and use the regulations in a well prepared building code. The general rules set forth in such a code will have to be supplemented in the different cities by some local rules. For example, such as setting forth the boundaries of the fire limit district; those giving the waterfront regulations for cities situated on rivers and other bodies of water, etc.

Technical Bureau and Laboratory

I believe that a National code of this kind should be of the greatest benefit and of aid materially in eliminating unnecessary cost in building construction. In connection with such a code, undoubtedly there should be provided under Government jurisdiction a technical staff and testing laboratories for the investigation of new materials, new manufactured products and new methods of construction for the purpose of determining what consideration should be given to such materials, products and construction. In this way only can the building regulations of the cities be kept up to date. The Government has facilities for doing this kind of work and can do it better than can any municipality, and certainly the work should be considered as a very important part of the work of providing a national building code. If this is not done and this national building code is not revised from time to time, it will mean that a great many comunities, although they may adopt the national building code, in a very few years will have out of date codes, through blind adherence to the regulations of such national code and such a condition will lead to bad results.

The value of a national technical bureau with a testing laboratory will be particularly great also, because, in the testing of materials and building products which may be under consideration in any part of the country, the approval or disapproval of such material or produuts will be out of the range of local influence and will be performed by an independent Governmental department, which department will be impartial in its findings. This is as it should be. Too many times in the past have materials or products been approved or disapproved because of some local political influence. The building business is too large and important a business to be subject to the whims of political expediency. The value of a national building code will have another good feature in that any person building in one city, if familiar with building regulations, can go to another city with a very fair idea of what the regulations will be. At the present time owners and builders in going from one city to another find many conflicting regulations, and the knowledge obtained of building regulations in one city is of little value when applied to another city.

Code Needed at Once

In conclusion I will state that there is no doubt but that a national building code will be of the greatest service to officials of building departments, to architects, to contractors, manufacturers and the building public. It will go a long way towards silencing many of the complaints made against the unreasonableness of building regulations. It will make the work of the city officials easier. It will reduce cost of building to the public. It will tend to simplify and make easier the operations of architects and contractors. Taking it all in all, I can see no harm that will follow from such legislation and I can see great benefits; so I hope for the fullest success for those that are engaged in the work of preparing a national building code and for an early completion of their work.

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

AUTOMATIC WATER HEATERS.
C. F. Tinnermann.....5940 Arch St., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

CONTRACTORS' EQUIPMENT
Moore & Weisbrod.....229 N. 12th St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
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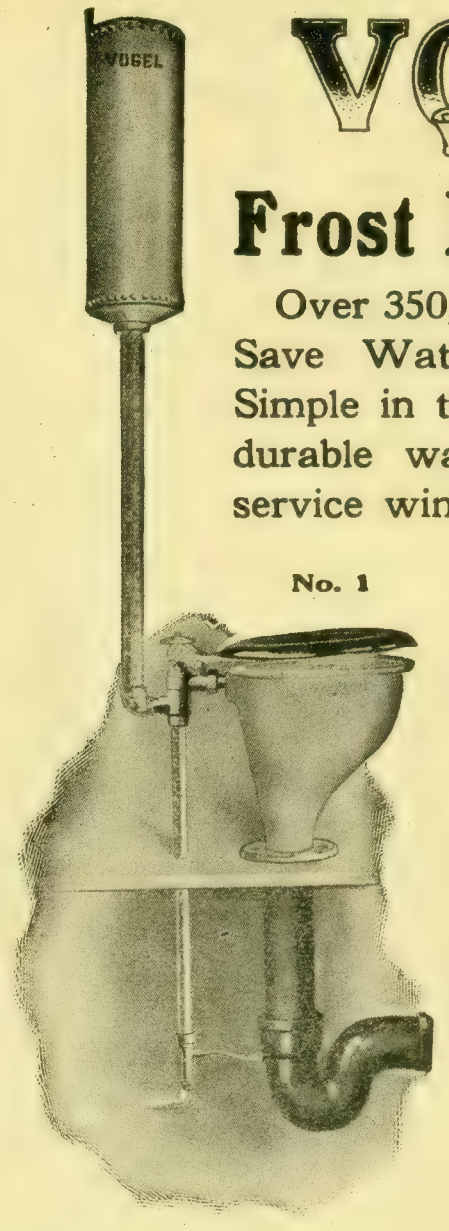
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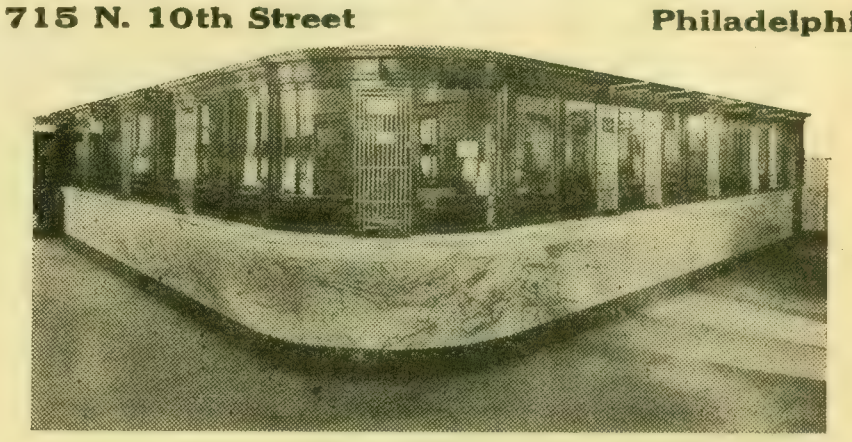
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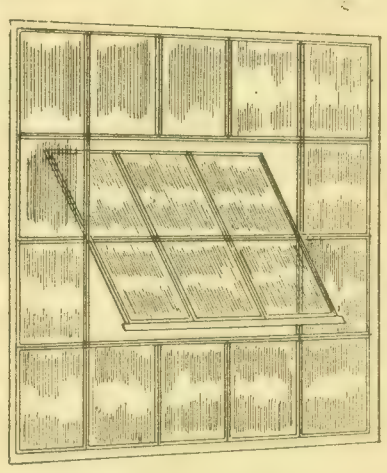


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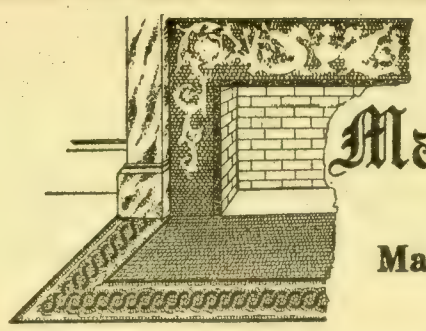
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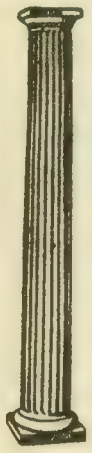
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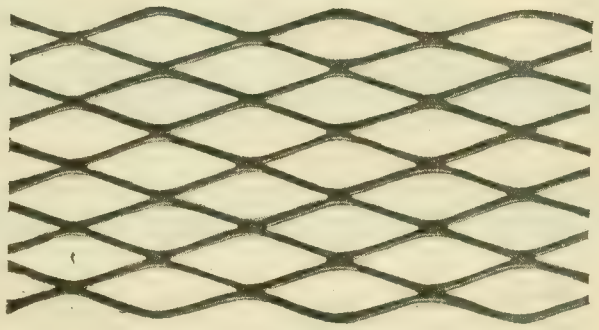
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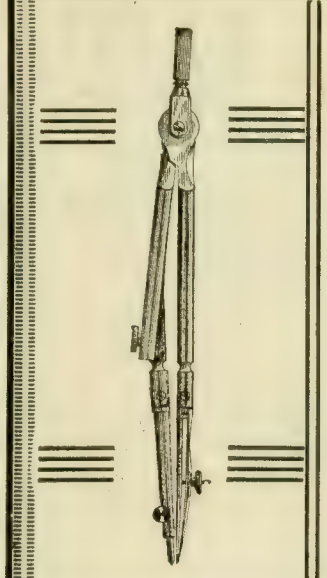
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VOLUME XXXVII
Number 32

PHILADELPHIA
August 9, 1922

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
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As The Editor Sees It

DETERMINING THE PROPER RELATIONS BETWEEN THE SEVERAL ELEMENTS IN THE CONSTRUCTION INDUSTRY

BY WALTER GORDON MERRITT, ATTORNEY, NEW YORK CITY

Address Delivered Before the American Construction Council, Washington, D. C., June 20, 1922

One of your prominent members has already complimented me by stating that he expects to disagree with everything I have to say. Undoubtedly he was referring to some of my known conflicts with the organized labor movement. Perhaps we should all remember that the organized labor movement is big enough to meet with and discuss with its critics and I hope I for one am big enough, in spite of the fact that I am one of its critics, to appreciate a great many of the values which lie in the activities and philosophy of the labor union movements.

I think your movement will be a success in spite of the fact that it was opened by a lawyer on the previous day and in spite of the fact that it was opened today by a lawyer. It does recognize after all that everybody has a great function to perform in connection with our Society.

Haywood Broome once remarked that when the silk worm told the sow that you couldn't make a silk thread out of a sow's ear, neither could you make a pork chop out of a silk worm.

Graham Wallace, the great social philosopher, has summarized one of our great problems by stating that a nation which does not learn co-operation must perish. Co-operation must take various forms. The lowest unit or rather the smallest unit is the family and the largest and most comprehensive unit is the state. But between those two units there must grow out of our complicated society with problems too numerous to be stopped by an interfering government, many other units of co-operation. We find them in the factories; we found them in the building trades industry and now we are learning that the methods of co-operation in the building trades industry have not yet been broad enough to handle the great problems which it has before it and that in spite of the existing units of co-operation it has fallen into many abysses which have brought it a very large amount of public discredit.

Men must unite to achieve that which they cannot achieve individually. This organization is a manifestation of the consciousness on the part of all interests contained in the building trades that co-operation must not only take place between each individual interest in the industry but that these different groups of different interests must learn to co-operate together in order that their interrelations may be properly solved upon a broad basis for the good of the public at large.

The relations between the architect and the contractor, the relations between the employer and the contractor, the relations between the engineers and the building industry, the relations to the Government, to railroads, and other relations which arise in the ordinary conduct of your problems must receive group attention, group consideration, if they are to be solved on a basis which will make your industry serve the public as it should serve the public.

Your task, in my judgment, is a very serious one, because between it and the complete attainment of its ideals there are many controversial questions of very serious moment which may be deferred for the time being but which in the end must be met and dealt with if we are ultimately to attain what we are seeking.

The character of the discussions which took place here yesterday, the character of the subjects which were assigned to the various speakers, show a vagueness and indefiniteness which is entirely desirable. If we were to specify too much in detail what we hope to attain we might find ourselves unduly circumscribing our work. We might find ourselves assuming the position of doctrinnaries, or we might, as the Irishman put it, disunite ourselves before we unite by the introduction of controversial subjects of a

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very fundamental nature. We all have to recognize that there are some of these problems so serious that we must approach them as a good housewife approaches a bad egg.

My own thought is that this movement aims to secure everything which can be attained by co-operation without transcending the law and that nothing but experience will pick out for us the proper line and boundaries of each individual activity. We must go forward with a faith which I call the Democratic faith, the faith in people's capacity for self government; a faith in that human nature which leads us to believe that if we met together and reason together we will learn to think, feel, and act together. That in the larger outline represents the hope and purpose of this great movement. But I do think the time has arrived for us to be a little more concrete. Perhaps I have been placed here because, being unconnected with this movement and being but an observer and an outsider, if I make a misstep or say something which shouldn't be said I could be speedily disowned and the movement could go on harmoniously in spite of me. At least my endeavor is going to be to outline somewhat more definitely some of the concrete purposes of this organization and to make it possible to put in various pigeon holes, not for the purpose of forgetting or discarding, but for the purpose of proper consideration when the time arises, these various problems which this organization has got to meet.

So far as certain business aspects of this work are concerned we are sailing in smooth waters and have little to hear from controversy or dissension. Various matters which were enumerated by the Secretary of Commerce are matters we all recognize as within the field of the proper functions of this great organization.

The collection of statistics, which gives the people connected with its industries the information upon which they can formulate intelligent acts, is a function with which no one will quarrel. It is necessary that there should be statistics relative to pending building operations, relative to the production and consumption of commodities which are to be utilized in connection with the industry, and also with the supply of labor which is necessary for your operations. It is perfectly obvious that standardization may play a great part in connection with your work and as the Secretary of Commerce stated, may lead to the development of a nomenclature which will reduce frauds and confusions in the public mind in connection with contracts and the character of materials in use.

In connection with that work you have in back of you the Federal Trade Commission. In a case in which I was interested before the Supreme Court it has been held that one of the functions of the Federal Trade Commission is to put a stop to misbranding, to misleading words, in connection with the sale of merchandise. In connection with the silk association we have gone a long ways to prevent the use of the word "silk" in connection with merchandise which is not silk. This organization if it is met with similar problems to the use of words describing merchandise which words are not accurate words, will have the Federal Trade Commission behind it in the promotion of higher ethical standards in connection with the sale of merchandise.

So there you have two obvious functions at the outset relative to statistics, relative to standardization, may be worked out by this Association in a way which will be helpful to the industry and in a way which will meet with public condemnation.

No one has said anything about credit protection. I myself am not sufficiently familiar with the present machinery in your industry to know what can be done in that regard but I do feel that this organization should be ready to encourage, if not assist, the prosecution of credit frauds in connection with the industry and if there does not already exist such an agency to look after credit systems for the benefit of the industry as a whole.

Your relations to transportation have already been mentioned and of course a great institution like this, if it were to bring any case before the Interstate Commerce Commission, could exercise very much greater influence in promoting better relations with the railroads relative to rates and to securing fair treatment in connection with your transportation problems, all at a very much less expense than if one group in one part of the country were attempting to do that work.

There is also the co-operation with Government, whether the national, state or municipal, and you will know the many serious problems growing out of politics and growing out of governmental relations as a whole which meet in industry in connection with public contracts. The subject of legislation has not been mentioned specifically in this brochure which has been prepared but you undoubtedly will work out through your own vision and through your own experience many laws which will work for the better protection of the industry and for fair play between it and the public. Building codes must be amended in certain parts of the country. Bad practices of various kinds can be dealt with by legislation better than by the exercise of your own activities.

And last I might say there is that broader co-operation between yourself and the public. Much can be done, of

(Continued on page 515)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Bank and Office Building, Southeast Corner Fifteenth and Chestnut streets, $2,500,000. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Fifteenth and Chestnut Streets Realty Co., Maurice B. Saul, president, Land Title Building, Philadelphia. Brick, steel, concrete, 24 stories, 72x230 feet, steam heat, electric light, tile and marble work, metal lath, elevators. Plans in progress.

Sales and Service Building, 1305 North Broad street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert N. Greenfield, Northeast Corner Fifteenth and Chestnut streets. Stone, 3 stories, 26x100 feet, cement floors, steam heat, electric light. Architct taking bids due August 11th.

Recreation Building, Funfield Recreation Centre, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of Recreation, City Hall, Philadelphia. Brick, cut stone, granite, steel and concrete, 2 and 1 stories, slag roof, 275x48 feet, cement, tile and yellow pine floors (plumbing, heating and lighting separate bids), metal lath, rolled steel doors, H. M. doors, ornamental iron work, steel work. Ready for bids in ten days.

New Building, Thirty-second and Turner streeets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, J. C. Kahn, Morris Building, Philadelphia. Reinforced concrete, brick, 2 stories, 214x165x137 feet, slag roof, cement floors, demolition, metal lath, elevators, rolled steel sash, galvanized iron skylights, fire doors, dampproofing, ornamental iron work. Architect taking bids due August 14th.

Apartment House, 2115 West Venango street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Jacob Largman, 3226 North Broad street, Philadelphia. Brick, 3 stories, steam heating. Plans in progress.

Building, Cherry and Lambert streets, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owners, Y. W. C. A., Eighteenth and Arch streets, Philadelphia. Brick, reinforced concrete and steel, 5 stories and basement, 72x81 feet, slag roof, cement and yellow pine floors (heating, plumbing and electric work reserved), elevators, metal lath, tile and marble work, kalamein doors, terra cotta. Architects taking bids due August 12th.

Store (alts.), 1846 Ridge avenue, Philadelphia, $8,000. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owner, Robert C. Adams, 1915 Girard avenue, Philadelphia. General alterations, plumbing, painting, hardwood floors, steam heat, electric light, tile and marble work, hollow metal skylights, flush bulks. Owner ready for bids August 11th.

Manufacturing Building, Northwest Corner Eyre and Memphis streets. Engineers, P. M. Sax and W. W. Hibbert, Penfield Building, Philadelphia. Owners, A. J. Reach Co., Tulip and Palmer streets, Philadelphia. Brick, cut stone, 4 stories, 143x100 feet, Barrett Specification roof, cement floors (plumbing, heating and electric wiring and elevators reserved), metal lath, tile and marble work, rolled steel sash, kalamein doors, floor hardener, waterproofing, ornamental iron work, demolitioin. Engineers taking bids due August 10th.

Theatre & Stores (5), Front and Huntingdon streets, Philadelphia. Architect, private plans. Owner, Richard J. Hill, 340 East Somerset street, Philadelphia. Brick, steel, 1 and 2 stories, 109x114 feet, slag roof, cement floors, steam heat, electric light, metal lath, roof ventilators, fire doors. Owner taking bids due as soon as possible.

Remodeling and Improvements of Building "N," Northeast Corner Twelfth and Reed streets. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall, Philadelphia. Bond, demolition, cement floors, structural steel, brick work, slate work, iron work, tin roof, slag roof, carpentry, mill work, metal lath, plastering, painting, glazing, hardware (plumbing, heating and electric work separate bids). Owners taking bids due August 15th.

Bridge, Front street, over Richmond Branch, Philadelphia & Reading R. R. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, Frank H. Caven, Director, 216 City Hall, Philadelphia. Steel and concrete. Owners taking bids due August 16th at noon. Inquire Room 416, City Hall.

Building (alts. and add.), 112 South Twentieth street, Philadelphia. Architect, private plans. Owner, Harold H. Happold, Widener Building, Philadelphia. Brick, cut stone, steel, 3 stories, 10x15 feet, tin roof, mineral and yellow pine floors, steam heat, electric light, marble work, dumb waiters, ornamental iron work. Owner taking bids due August 10th.

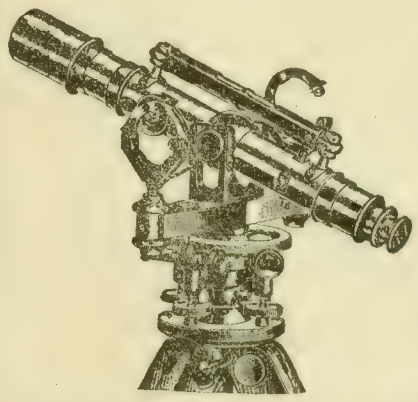
Odd Fellows' Hall (alts. and add.), Lyceum and Ridge avenues. Architects, Platt & Talley, 1627 Sansom street, Philadelphia. Owners, Roxboro Lodge, No. 661, I. O. O. F., Roxboro, Philadelphia. Brick, cut stone, steel, 3 stories, slag and slate roof, concrete and pine floors, hollow tile, waterproofing and dampproofing, ornamental iron work, bond, metal lath, tile work. Revised plans in progress. Architects will be ready for bids in a few days.

Store Building, 1229 North Broad street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Brick, steel, cut stone, 4 stories, 160x50 feet, slag roof, maple and concrete floors, steam heat, electric light, hollow tile, metal lath, tile work, rolled steel sash, galvanized iron skylights, fire and kalamein doors, metal ceilings, bond, floor hardener, terra cotta, ornamental iron work. Architects taking bids due August 10th.

Residence (alts. and add.), 617 Westview avenue, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Abram Asher, on premises. Stone, 1 story, 30x15 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile and marble work, ornamental iron work. Architect taking bids due as soon as possible.

Factory Building, 1745-51 North Bodine street, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owner, Hugh F. Monro, on premises. Brick, reinforced concrete, joists, two stories and basement, 60x50 feet, slag roof, wood floors, steam heat, electric light, rolling steel doors, steel windows, electric elevators. Architcts taking sub-bids.

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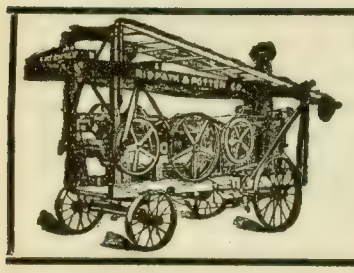
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delphia. Architect, Philip H. Johnston, 1713 Sansom street, Philadelphia. Owners, State Armory Board of Pennsylvania, care of B. J. Denning, Harrisburg, Pa. Brick, concrete, general alterations. Plans about completed. Owners will take bids.

Residence (alts. and add.), 3940 Spruce street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Sylvan Josephs, on premises. Brick, stucco, cut stone, limestone, cement and maple floors, metal lath, tile and marble work, bond, ornamental iron work (heating, plumbing and electric work reserved), plastering, carpentry, mill work, skylights, carpentry, painting, cold water painting. Architect taking bids due August 10th.

Residences (7), Mt. Airy street and Lincoln Drive, $72,000. Architect, private plans. Owner, John H. McClatchey, Land Title Building, Philadelphiai. Stone, 3 stories, 21x37 feet and 18½x36 feet, slag roof, hot water heat, electric light, tile work. Owner will build.

Residences (22), Louden and C streets, $4,000 each. Architect, Karl F. Otto, 5802 North Fifth street, Philadelphia. Owner, William B. Davenport, 1315 Colwyn street, Philadelphia. Brick, 2 stories, 15x27 feet, 12x10 feet, slag roof, hot water heat, electric light. Owner will build.

Building (alts. and add.), 1461 North Fifty-second street, $2,500. Architect, private plans. Owners, Levitt & Schochtler, 620 Wolf street, Philadelphia. Brick, 2 stories, 15x8 feet, and 1 story, 12x12 feet, slag roof, yellow pine floors. Owners will build.

Garages, Forty-third and Market streets, Philadelphia. Architect, John J. Carroll, Middle City Building, Philadelphia. Owner, Louis E. Faulkner, 14 North Paxon street, Philadelphia. Brick, steel and stone, 1 and 2 stories, 140x215 feet, slag roof, cement floor, steam heat, electric light. Architect ready for sub-bids.

Residences (52), North and South sides Beaumont street, Fifty-sixth to Fifty-seventh streets. Architect, Karl F. Otto, 5802 North Fifth street, Philadelphia. Owners, Kenin & Shapiro, 5850 Market street, Philadelphia. Brick, 2 stories, 16x37 feet, slag and slate roof, hardwood floors, hot water heat, electric light, tile work. Owners taking sub-bids.

Residences (14), Rockland, Eleanor and C streets, $68,000. Architect, private plans. Owner, F. G. Haufner, 144 West Olney avenue, Philadelphia. Brick, 2 stories, 15½x38 feet 4 inches, hot water heat, electric light, slag roof. Owner will build.

Warehouse, Ninth street, North of Tioga street, $5,000. Owner, Frank C. Snedaker, Ninth and Tioga streets, Philadelphia. Brick, 2 stories, 20x113 feet, slag roof, yellow pine floors, steam heat, electric work. Owner will build.

Residences (34), Sixty-fifth and Haverford avenue, $193,300. Owner, Pompey Ansell, 6503 Race street, Philadelphia. Brick, 2 stories, 20x37 feet, 15x26 feet, 11x12 feet and 16x36 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (156), Rising Sun avenue, Raymond street, Sparks street, Thelma street, and Saber street, $640,600. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 15x37 feet, 1010 feet, 15x42 feet, 14x31 feet, 6x10 feet, 16x31 feet, 8x10 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (2), Midvale avenue, East of Stokley street, $12,000 each. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Stone, 3 stories, 28x40 feet, slate roof, oak and pine floors, hot water heat, electric light. Owner will build.

Shop and Office, 1110 North Front street, Philadelphia, $6,000. Architect, private plans. Owner, Charles D. Heavey, 1110 North Front street, Philadelphia. Brick, 2 stories, 20x66 feet, slag roof, yellow pine floors. Owner will build.

Warehouse (add.), West side Nixon street, North of Fountain street, $25,000. Architect, private plans. Owners, Philadelphia Paper Mfg. Co., on premises. Brick, 1 story, 40x100 feet, cement floors, slag roof, electric light. Owner will build.

Garage (add.), North side Cambria street, West of Twenty-first street, $5,000. Architect, private plans. Owner, Joseph Manfredi, 2153 West Cambria street, Philadelphia. Brick, 1 story, 40x100 feet, slag roof, cement floors. Owner will build.

Drying House, Northeast Corner Montgomery and Mascher streets, $2,800. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owners, Montgomery & Snow, on premises. Brick, 1 story, 16x22 feet, slag roof. Owner will build.

Residences (2), Botanic avenue, West of Eighty-third street, $2,000 each. Architect, private plans. Owner, William Greenman, 8320 Brewster avenue, Philadelphia. Brick, 2 stories, 15x36 feet, slag roof, hot air heat, yellow pine floors. Owner will build.

Residences, South side Walter street, West of Rising Sun avenue, $8,000. Architect, private plans. Owner, Michael Stevens, 916 Vincent street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heat, electric light. Owner will build.

Apartment Houses (5), Southeast Corner Forty-seventh and Chestnut streets. Architect, private plans. Owners, T. J. & J. R. Whelen, Seventeenth and Summer streets, Philadelphia. Brick, limestone and steel, 4 stories, 19x75 feet, slag roof, oak and yellow pine floors, steam heat, electric light, metal lath, roof ventilators, tile and marble work, rolled steel sash and skylights, fire doors, ornamental iron work. Owners taking sub-bids.

Residences (6), South side Howarth, East of Horrocks, $6,000 each. Architect, private plans. Owner, Harry Drake, 3139 Frankford avenue, Philadelphia. Brick, 2 stories, 20x37½ feet, slag roof, tile work, hot water heat, electric light. Owner will build.

Y. M. C. A. Building (add.), Germantown avenue and Haines street. Architect, Benjamin F. Betts, Land Title Building, Philadelphia. Owners, Y. M. C. A., Germantown Branch, on premises. Brick, stucco, 2 stories, 50x98 feet, slag roof, maple floors, hollow tile, metal lath, steam heat, electric light, tile and marble work, ornamental iron work. Architect taking bids due Augus 14th.

Toilet Doors and Marble Work, 8 Stations, Frankford Elevated. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Lowest bidder (Cont. 598), J. B. McHugh, Jr., 892 North Markoe street, Philadelphia, $6,170.

Apartment House, Parkside avenue, West

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of Fifty-second street, Philadelphia. Architect, private plans. Owner, Joseph Rosen, 5216 Parkside avenue, Philadelphia. Brick, 3 stories and basement, 40x120 feet, composition roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress. Owner will build.

Factory (add.) and Stores (5), Unity, Paul and Frankford avenue. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, La France Textile Co., Bernard Davis, president, 4423 Paul street, Philadelphia. Brick, 2 stories, 50x80 feet, slag roof, steam heat, electric light. Plans in progress. Architect will take bids in one week.

Residences (33), West side Seventh street, North of Chew, $4,000 each. Owners, Otto & Albert Steinacker, 39558 North Fifth street, Philadelphia. Brick, 2 stories, 16x40 feet and 15x29 feet, 11x11 feet, slag roof, hot water heat, electric light. Owner will build.

Garage, 1433-37 Parrish street, Philadelphia. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Louis J. Kolb, Tenth and Reed streets, Philadelphia. Brick and steel, 1 story, 175x200 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Harry T. Saunders, agent, 31 South Eighteenth street, taking revised bids.

Residences (200), Duffield and Bridge streets, Philadelphia. Architect, private plans. Owner, George Schwinn, Lindley avenue and Camac street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heat, electric light. Plans completed. Owner ready for sub-bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Rectory, Midvale avenue, near Ridge avenue, Falls of Schuylkill. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Bridget's Roman Catholic Church, Right Rev. W. J. Walsh, on premises. Stone, 3 stories, 35x80 feet, slate and lead roof, waterproofing, ornamental iron work, metal lath (marble and terrazzo work reserved). Contract awarded to M. Melody & Son, 1322 Race street, Philadelphia. Church at same address being revised.

Susquehanna Sub-Station, Susquehanna avenue and American street. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Brick, cut stone, steel, 1 story, 121x59 feet, slag roof, cement floors, waterproofing, marble work, rolled steel sash and skylights. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Building, Southeast Corner Thirteenth and Spruce streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, United Lutheran Publication House, Ninth and Sansom streets. Brick, concrete and steel, 8 stories and basement, 74x117 feet, slag roof, concrete and linoleum floors, hollow tile, elevators, metal window guards, dampproofing, terra cotta, iron work, bond. Contract awarded to Wark & Co., 231 South Broad street, Philadelphia.

Frankford Central Office Building (alts. and add.), 1640 Church street, Frankford, Philadelphia. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Cut stone, brick, steel, second floor add., 47x26 feet, slag roof, pine and composition floors, metal lath, demolition, kitchen equipment, sheet metal sash, steam heat, electric light, stone foundations, fire tower. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Factory Building, Southwest Corner Thirty-third and Arch streets, Philadelphia, $100,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Thirty-third and Arch Streets Realty Co., care of architect. Brick, concrete, cut stone and steel, 1 and 2 stories and basement, 133x70 feet, slag roof, cement floors, hollow tile, metal lath (elevators, heating, plumbing and electric work reserved), rolled steel sash, galvanized iron skylights, fire and kalamein doors, bond, floor hardener, terra cotta. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Cafeteria (alts.), 3441-43 Walnut street. Architect, William H. Timm, Perry Building, Philadelphia. Owner, Miss Nora E. Yost, care of architect. Brick, structural steel, iron work, plastering, carpentry, mill work, hardware, glazing, painting, cement floors, linotile and mineral floors ,slag roof. Contract awarded to W. O. Springer, 2004 Naudain street, Philadelphia.

Bank Building (alts. and add.), 415 Chestnut street, $84,000. Architect, private plans. Owners, Philadelphia Trust Co., 415 Chestnut street. Brick, 4 stories, 50x51 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Church and Rectory, Fifth and Lindley avenue, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Church of the Incarnation, Rev. Michael J. Brady, rector, on premises. Stone, steel, 3 stories, church, 159x79 feet, rectory, 59x47 feet, slate and slag roof, yellow pine and oak floors, metal lath, bond. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

Stable (add.), 1510-12-14 South Sixteenth street, Philadelphia. Architects, Stuckert &

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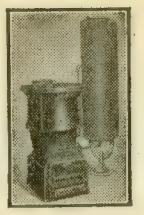
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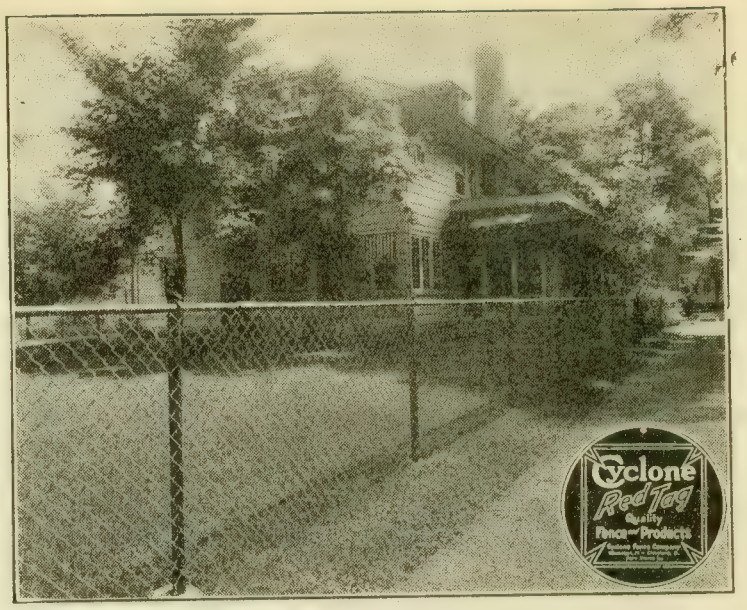
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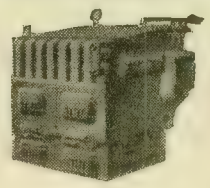
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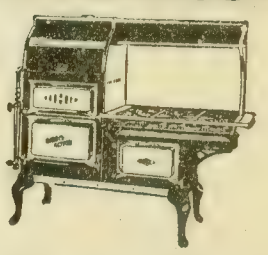
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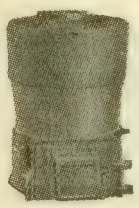
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Co., Crozer Building, Philadelphia. Owner, Henry Dolfinger, Sixteenth and Tasker streets, Philadelphia. Brick and steel, 2 stories, 50x61 feet, composition roof, cement and yellow pine floors, ornamental iron work. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Synagogue, Northwest Corner Forty-first and Viola streets, Philadelphia, $50,000. Architect, Herman H. Kline, 1414 South Penn Square, Philadelphia. Owners, Tikvas Israel Congregation, care of architect. Brick, 3 stories, 58x89x22 feet, slag roof, tile work, steam heat, electric light. Contract awarded to Max Larson, 4250 Parkside avenue, Philadelphiai. i

Nurses' Home (add.), Northeast Corner Fifteenth and Blavis streets, $25,000. Architect, private plans. Owners, St. Luke's Hospital, Broad and Wingohocking streets. Brick, steel, second story add., 33x35 feet and 39x37½ feet, and second story, 33x40½ feet, tile, marble work, skylights, iron work, slag roof, oak and yellow pine floors. Contract awarded to Henry P. Schneider, 3713 Old York road.

Garage, 4116 Ogden street, Philadelphia. Architect, J. Wilmer Thompson, 703 South Sixtieth street, Philadelphia. Owner, King's Garage, care of architect. Brick, 1 story, 40x67 feet, slag roof, electric lighting, rolled steel sash and skylights (cement flooring and heating reserved). Contract awarded to W. A. Evitts, 5022 Chancellor street, Philadelphia.

Apartment Building (add. and alts.), 3414 Spring Garden street. Architect, J. Wilmer Thompson, 703 South Sixtieth street, Philadelphia. Owner, Albert Brown, 310 Lincoln Building, Philadelphia. Brick, 3 stories, 21x70 feet, slate roof, electric light, plumbing, tile, marble and cement work, refinishing floors (heating reserved, iron stairs. Contract awarded to W. A. Evitts, 5022 Chancellor street, Philadelphia.

Residence, Moumfort road, Chestnut Hill, Philadelphia. Architect, Lawrence Visscher Boyd, Harrison Building, Philadelphia. Owner, Hilson H. Whyte, 7415 Boyer street, Philadelphia. Stone, 2½ stories, 43x26 feet, wings 23x13 feet and 26x12 feet, slate roof, oak and pine floors, electric light, tile work (heating reserved). Contract awarded to Tourison & Tourison, 1310 Arch street.

Garage, New and Prospect streets, Germantown, Philadelphia, $3,775. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Misses Earl, Chestnut Hill, Philadelphia. Stone, 1 story, 21x28 feet, slate roof, cement floors (heating and plumbing reserved), electric lighting. Contract awarded to Tourison & Tourison, 1310 Arch street.

Residence, 1808 Spruce street, Philadelphia, $16,000. Architect, private plans. Owner, Walter S. McInnis, on premises. Carpentry, mill work, plastering, steam heating, electric lighting, painting, glazing. Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

Shelter and Wading Pool, Nineteenth and Wiley streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation. City Hall, Phila. Concrete, 69x33 feet, shelter surrounding pool, shsingle asbestos roof, concrete floors, bond, waterproofing, iron work. Contract awarded to Mitchell-Houseworth Co., 2512 North Twenty-seventh street.

Store Building, 3621 Woodland avenue, Philadelphia, $14,000. Architect, private plans. Owners, Edward P. Dolbey Co., 3613 Woodland avenue, Philadelphia. Brick, cut stone, 3 stories, 48x14 feet, slag roof, pine and maple floors, dumb waiter, electric lighting. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

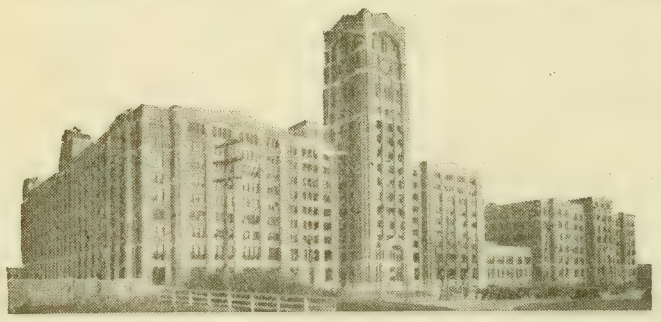
Residence (alts.), 1927 Spruce street, Philadelphia. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, Dr. F. B. Baer, Jr., 2039 Chestnut street, Philadelphia. Heating repairs, electric work, tile and marble work, oak and composition floors, canvas roof, painting, glazing, carpentry. Contract awarded to R. J. McKenna, 2043 North Hutchinson street.

Residence (alts.), 433 East Mt. Airy avenue, Philadelphia, $3,000. Architect, Harris A. Richards, Drexel Building, Philadelphia. Owner, Edwin A. Zeller, on premises. Carpentry, mill work, plastering, hardware, painting, glazing, hot air heat, electric light, tile

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work. Contract awarded to Thomas C. Trafford, 1613 Sansom street.

Express Building, Eighth and Master streets, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway Co. (American Railway Express Co.), Reading Terminal, Philadelphia. Corrugated steel, asbestos metal, 1 story, 86x337 feet, built-up asbestos roof, asphalt and maple floors, electric light, rolled steel sash, bond, iron work. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Store, 1229 Walnut street, Philadelphia. Architects, Magaziner & Eberhard & Harris, 603 Chestnut street. Owner, Morris Wenger, 1227 Walnut street, Philadelphia. Brick, cut stone, steel, 4 stories, slag roof, oak and pine floors, elevators, terra cotta, iron work, metal bulks, rolled steel sash. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

Residence (alts.), 112 East Chestnut avenue, and **Garage**.. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Edward B. Robinette, on premises. General alterations to residence, garage, stone, 1 story, 24x37 feet, slate roof, cement floors, hot water heat, electric light. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

Garage, East side Fifty-second street, South of Greenway avenue, $30,000. Architect, Mahlon H. Dickinson, 6151 Market street, Philadelphia. Owner, Mary Herkowitz, 253 South Sixtieth street, Philadelphia. Brick, 1 story, 90x98 feet, slag roof, cement floors, electric lighting. Contract awarded to H. Platt & Co., 1701 Chestnut street.

Garage, Southeast Corner Cambridge and Watts street, $16,000. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Louis J. Kolb, Southeast Corner Tenth and Reed streets, Philadelphia. Brick, steel, 1 story, 48x112 feet and 32x32 feet, slag roof, cement floors, steel sash, electric work, steam heat. Contract awarded to Schaeffer & Co., Otis Building, Philadelphia.

Residences (2) (add.), 528-30 South Fourth street, Philadelphia, $11,800. Architect, private plans. Owner, S. Uvam, 441 South street, Philadelphia. Brick, 3 stories, 11x21½ feet, slag roof, oak and pine floors. Contract awarded to I. Negro, 2442 South Marshall street, Philadelphia.

Residence, 3303 Queen street, Philadelphia, $10,000. Architect, McKee Walton, 139 South Fourth street, Philadelphia. Owner, A. Blum, 1518 Chestnut street, Philadelphia. Brick, 2 stories, 21x29½ feet, 24x14 feet, slag roof, oak and pine floors, tile work, steam heat, electric light. Contract awarded to C. W. Putler. 1929 Girard avenue, Philadelphia.

Residence, 222 East Cliveden street, Philadelphia, $7,200. Architect, private plans. Owner, A. R. Eddoes, 444 Queen Lane, Philadelphia. Brick, 2 storiese, 20x32 feet, slag roof, hot water heat, electric light. Contract awarded to John Roman, 414 East Bringhurst street.

Storage Building, 1526 Washington avenue, $5,500. Owners, Thomas Brothers, on premises. Iron, 1 story, 20x80 feet and 21x73 feet, corrugated iron roofing. Contract awarded to A. T. Dean, 6016 Summer street, Philadelphia.

Store, 1705 Ridge avenue, Philadelphia, $8,055. Architect, private plans. Owner, Charles W. Spencer, 1650 Ridge avenue, Philadelphia. Brick, 2 stories, 18 feet 4 inches x 50 feet, hot water heat, electric light, slag roof, pine floors. Contract awarded to A. Raymond Raff Cont. Co., 1635 Thompson street.

Workshop, Southeast Corner Taney and Parrish streets, $17,000. Architect, private plans. Owner, James T. Finnessey, on premises. Brick, 1 story, 80x25 feet, 49x65 feet, slag roof, steel sash, cement floors, steam heat electric light. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Building (alts. and add.), 446 South Fifty-second street, Philadelphia, $8,625. Architect, private plans. Owner, D. G. Temoyan, 3309 Chestnut street, Philadelphia. Brick, 2 stories, 14x15 feet, 16x10 feete, slag roof, electric lighting. Contract awarded to Frank R. Bilotta, Southeast Corner Seventh and Christian.

Building (add.), 430 Lombard street, Philadelphia, $4,000. Architect, private plans. Owner, S. Bocoslovsky, 505 South Fifth street, Philadelphia. Brick, 2 stories, 20x40 feet, slag roof, hot water heat, electric light. Contract awarded to N. Leitman, 1597 North Fifty-second street, Philadelphia.

Stable, 1215 Annin street, Philadelphia, $3,800. Architect, private plans. Owner, J. V. Foreman, Northeast Corner Fifteenth and Carpenter streets. Brick, 2 stories, 20x49½ feet, slag roof, yellow pine floors. Contract awarded to George W. Thayer, 109 North Camac street.

School (alts.), Southeast Corner Nineteenth and Spring Garden streets, $3,000. Architect, private plans. Owners, College of Osteopathy, on premises. Carpentry, mill work, painting, glazing, plastering. Contract awarded to D. A. McClelland Co., Drexel Building, Philadelphia.

Building (alts.), Northeast Corner Girard avenue and Watts street, $2,600. Architect, private plans. Owner, John Laviny, 1335 Girard avenue, Philadelphia. General interior alterations. Contract awarded to John J. Gaffney, 1812 Master street.

Residence (alts. and add.), 1611 Diamond street, $4,000. Owner, Mrs. Frances R. Abbott, on premises. Brick, 3 stories, 7x12½ feet, slag roof, oak and pine floors. Contract awarded to A. Dunlap, 7223 Oak Lane avenue.

Residence and Store, 2034 West Columbia avenue, $2,000. Architect, Edward Hoffman, Jr., 315 South Fifteenth street, Philadelphia. Owner, John C. Gracy, on premises. Carpentry, mill work, painting, glazing, plastering. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Shop, 5524 North Third street, Philadelphia, $3,500. Architect, private plans. Owner, H. A. Haag, on premises. Brick, 2 stories, 24x24 feet, slag roof, yellow pine floors. Contract awarded to C. Salvator & Co., 2910 North Van Pelt street.

Store, Northwest Corner Fountain and Ogle streets, Philadelphia, $3,000. Architect, private plans. Owner, Louis Taunton, on premises. Stone, 1 story, 16x40 feet, slag roof, yellow pine floors. Contract awarded to William H. Eddleman & Son, 453 Green Lane.

Residence and Store (alts.), 108 South Eighteenth street, $2,400. Architect, private plans. Owner, Miss Frances Klinges, on premises. General interior alterations. Contract awarded to William R. Dougherty, 1610 Sansom street.

Residence and Store (add.), 1733 South Fifth street, Philadelphia, $2,000. Owner, S. Kessler, on premises. Brick, 2 stories, 12x19 feet, slag roof, yellow pine floors. Contract awarded to M. Singer, 430 Snyder avenue, Philadelphia.

Residence (alts.), 2016 Pine street, $2,300. Architect, private plans. Owner, Dr. John W. Robb, 1336 Widener Building, Philadelphia.

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General interior alterations. Contract awarded to W. N. Thompson, 1529 Filbert street, Philadelphia.

Building (alts.), 731 South street, $2,000. Owner, G. Brooks, 431 South street, Philadelphia. General interior alterations. Contract awarded to George Weiss Co., 1216 North Mascher street.

Residence and Store (add.), 5137-39 Chestnut street, $8,000. Owner, Annie H. Baessler, 102 Landfair avenue, Cynwyd, Pa. Brick, 2 stories, 16x8 feet, 18x11 feet, slag roof, hot water heat, electric light, oak and pine floors. Contract awarded to S. H. Bailey Mercer, 4901 North Seventeenth street, Philadelphia.

Storage Building, 131 South Thirtieth street, Philadelphia. Architect, private plans. Owner, Edward O'Malley, on premises. Brick, 1 story, 25½x78x17 feet, slag roof. Contract awarded to J. B. Kelly, 2333 Walnut street, Philadelphia.

Factory (add.), West side Main street, North of Walnut Lane, $20,000. Architect, private plans. Owner, Robert Krook, on premises. Brick and steel, 1 story, 80x72 feet, slag roof, steel sash, skylights, steam heat, electric work, cement floors. Contract awarded to Elmer Cuthbertson, 334 Roxboro avenue.

Garage (1) and Garage and Store, North side Woodland avenue, West of Fifty-third street, Philadelphia, $12,500. Architect, private plans. Owner, Mary Dunton, 920 South Fiftieth street, Philadelphia. Brick, 1 story, (1) 36x24 feet and 10x120 feet, and (1) 18x150 feet, slag roof, cement floors, steam heat, electric lighting. Contract awarded to Edward Holland, 5005 Sansom street, Philadelphia.

Apartment (alts. and add.), 509-11 South Broad street, $17,000. Owner, B. Cohen, 135-37 South Ninth street, Philadelphia. Brick, 1 story, 12x92 feet, 12x12 feet, slag roof, tile work, electric work, hot water heat. Contract awarded to S. H. Levin, 1631 South Fifth street, Philadelphia.

Sales and Service Building (add.), 3723-25 Walnut street, $8,000. Architect, private plans. Owners, C. C. Colbough and F. R. Mullin, 3723 Walnut street, Philadelphia. Brick, 1 story, 80x90 feet, 44x8 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to William Willford, Camden, N. J.

Building, 3512 Longshore street, Philadelphia, $2,500. Architect, private plans. Owner, Gotlob Layer, Southwest Corner Longshore and Van Dyke streets. Brick, 1 story, 62x34 feet, slag roof. Contract awarded to H. C. Zingraf, 2527 North Seventh street, Philadelphia.

Residence (alts. and add.), 2813 Wharton street, $2,000. Owner, N. Abramson, 2832 Wharton street, Philadelphia. Brick, 1 story, 17x10 feet, general alterations. Contract awarded to Levitt & Schlechter, 620 Wolf street.

Sunday School (alts. and add.), Wyoming avenue, East of Front, $15,000. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Wyoming Avenue Baptist Church, on premises. Stone, 1 story, 68x76 feet, slate roof, composition and pine floors, electric light, tile work (heating and electric lighting reserved). Contract awarded to Thomas Dalley, 329 East Wyoming avenue, Philadelphia.

Pennsylvania Construction News

Church, Pittston, Pa. Architect, T. H. Atherton, Coal Exchange Building, Wilkes-Barre. Owners, Lackawanna Presbyterian Church, care of architect. Brick, stucco, 1 story and basement, 30x70 feet. Preliminary plans in progress.

Warehouse, Wilkes-Barre, Pa. Architect, T. H. Atherton, Coal Exchange Building, Wilkes-Barre. Owners, Lawrence Meyer's Estate, care of architect. Steel and brick, 4 stories, 60x120 feet ,slag roof, pine floors, electric lighting, freight elevators, waterproofing and dampproofing, fire doors, iron stairs. Plans in progress.

Pavilion (add.), Harvey Lake, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Oneonea Amusement Co., care of architects. Frame and steel, 1 story, 30x100 feet, built-up roof, pine floors, electric lighting. Plans in progress.

Warehouse (add.), Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Robbins Lumber Co., care of architects. Brick and steel, 3 stories, 45x62 feet, built-up roof, maple floors, electric lighting. Plans in progress.

Loading Shed, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Robbins Lumber Co., care of architects. Fireproof, 1 story, 18x42 feet, copper work, iron work. Plans in progress.

School, Minersville, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Minersville School Board, J. Blaejswski, secretary, Minersville. Frame, 2 stories, 8 rooms, slag roof, hardwood floors, steam heat, electric light. Plans in progress.

Cathedral, Altoona, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, Diocese of Altoona, care of Right Rev. John J. McCort, Altoona, Pa. Stone, 1 story, steam heat, electric light, marble work. Preliminary plans in progress.

School (add.), West Conshohocken, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owners, WeWst Conshohocken School Board, T. E. Ambler, president, West Conshohocken, Pa. Brick and stucco, 2 stories and basement, 59x63 feet, slate roof, pine floors, hot air heat, electric light. Preliminary plans in progress.

Church and Sunday School, Telford, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owners, United Evangelical Association, W. H. Fenstermacher, Telford, Pa. Stone or brick, 1 and 2 stories, 36x60 feet and 36x40 feet, slate roof, vapor heat, electric light. Preliminary plans in progress.

Parsonage (add.), Scranton, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Petersburg German Presbyterian Church, Rev. Dietrich, Prescott avenue, Scranton, Pa. Brick, 2 stories, 12x13 feet, slate roof, hardwood floors, steam heat, electric light. Plans in progress.

High School, Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Plains School Board, William Robertson, Plains, Pa. Brick, 2 stories, 150x170 feet, slag roof, hardwood floors, hollow tile, steam heat, electric light, metal lath, tile and marble work, roof ventilators, rolled steel skylights, vaults, waterproofing and dampproofing, ornamental iron work. Plans in progress.

School and Gymnasium, Herrick Center, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton. Owners, Herrick Center Township School Board, George E. Giles, secretary, Herrick Center, Pa. Brick, 2 stories, 64x80 feet, slag roof, hardwood floors, steam heat, electric light, hollow tile. Revised plans in progress.

School, Sunbury, Pa. Architect, Ralph M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Sunbury School Board, Robert Worrell, secretary, Sunbury, Pa. Brick, 2 stories, 80x106 feet, composition roof, hardwood floors, hollow tile, electric light, roof ventilators. Plans in progress.

Church and Sunday School, Wilkes-Barre, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Westminster Presbyterian Church, Rev. Davies, Wilkes-Barre, Pa. Stone, 1 story and basement, 49x105 feet, slate roof, hardwood floors, steam heat, electric light. Revised plans in progress.

Apartment (alts. and add.), Fifth street, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, S. Mentzer, 513 Walnut street, Harrisburg, Pa. Brick, 3 stories, 26x95 feet, tin roof, pine floors, electric light. Plans in progress.

Residence (alts. and add.) to Apartment, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, name withheld. Brick, 1 story, 30x42 feet, slag roof, hardwood floors, hot water heat, electric light. Plans in progress.

Public Comfort Station, Central Square, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster. Owners, City of Lancaster, J. W. Hetrick, chairman, Woolworth Building, Lancaster, Pa. Concrete, 60x60 feet, terrazzo and tile floors, electric light, tile and marble work, safety treads, plumbing, waterproofing, concrete floors. Plans in progress.

Church, Harrisburg, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Emmanuel Presbyterian Church, Rev. G. W. King, Harrisburg. Stone, 1 story and basement, 90x112 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile work, gymnasium equipment. Plans in progress.

Residence, Danville, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Joseph Doster, Jr., Danville, Pa. Brick, hollow tile and stucco, 2½ stories, 42x30 feet, shingle roof, oak floors, hot water heat, electric light, tile work. Owner will sub-let.

Stores and Apartments (4), Drexel Hill, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owners, Rittenhouse Brothers, 4219 Lancaster avenue, Philadelphia. Brick, 2 stories, 83x44 feet, slag and slate roof, pine floors, metal lath, hot water heat, electric light, tile work. Architects ready for bids.

Residence (alts. and add.), Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, J .H. Glass, Shamokin, Pa. Brick, 2½ stories, 30x42 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect ready for bids.

Apartment House, Carlisle, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, George W. Brady, Carlisle, Pa. Brick and limestone, 2 stories, 26x53 feet, asbestos shingle roof and built-up roof, oak floors, hot water heat, tile work, electric lighting. Owner ready for bids.

School, Stonehurst, Pa. Architect, Horace W. Castor, Stephen iGrard Building, Philadelphia. Owners, School District, Upper Darby, Pa. Limestone, brick, cut stone, steel, 2 stories, 147x57 feet, Barrett roof, maple and cement floors, roof ventilators, dampproofing, metal lath, rolled steel sash, copper skylights. Low bidders: Bowden Const. Co., 1935 Chestnut street, Philadelphia, $99,893. Penn Const. & Eng. Co., 3840 Spring Garden street, Philadelphia, $100,000.

Temple and Stores, Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Masonic Lodge of Philipsburg, care of William Maxwell, Philipsburg. Brick, concrete, 3 stories and basement, 60x88 feet, Johns Manville roof, concrete floors, vapor heat, electric light, tile work, hollow tile, tile work, roof ventilators. Architect will be ready for bids in ten days.

Moving Picture Theatre, Lansdale, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owners, Lansdale Theatre Co., H. F. Bourse, president, Lansdale, Pa. Brick and steel, 1 story, 60x120 feet, slag roof, concrete floors, metal lath, vapor heat, electric light, tile and terrazzo work, roof ventilators. Architect will be ready for bids in one week.

Residence, Milton, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Carl E. Hecht, Milton, Pa. Frame and stucco, 2½ stories, 40x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in one week.

Residence and Store (alts. and add.), Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Joe Milockowsky, 618 Forest Court, Scranton, Pa. Frame and stucco, 2 stories, 58x24 feet, slate roof, pine floors, steam heat, electric light. Owner ready for bids.

Residence, Littlestown, Pa. Architects, Johnston & Starr, Harrisburg, Pa. Owner, Dr. H. S. Crouse, Littlestown, Pa. Stucco, 2½ stories, 30x40 feet, composition roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids.

Store and Residence, Nanticoke, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, Felix Bonbrowek, Nanticoke, Pa. Brick, 3 stories, 25x35 feet, slag roof, hardwood floors, steam heat, electric light. Owner ready for bids.

Garage, Seneca and Logan streets, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, J. H. Tripner, 312 Verbeck street, Harrisburg. Brick, 1 story, 119x80 feet, slag roof, concrete floors, steam heat, electric light. Owner ready for bids.

Residence, College street, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Dr. H. H. Mentzer, Carlisle, Pa. Brick, tile, 2½ stories, 36x38 feet, slate roof, hardwood floors, electric light, tile work. Architect ready for bids.

High School, Wyoming, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Wyoming School Board, W. Reynolds, secretary, Wyoming, Pa. Brick, 2 stories, 60x70 feet, slag roof, hardwood floors, tile work (heating, plumbing and electric work reserved). Architects taking bids due August 15th.

Orphanage (add.), Abbottstown, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, Paradise Protectorate, Right Rev. Philip J. McDevitt, Harrisburg, Pa. Brick and stone, 2 stories and basement, 55x110 feet, slate roof, pine floors, steam heat, electric light, tile and marble work. Architect taking bids due August 11th.

High School, Ambler, Pa. Architect, S. S. Conver, 11 South Sixteenth street, Philadelphia. Owners, Board of Education, Philip Maas, secretary, Ambler, Pa. Brick, steel, 2 stories, 161x73 feet, slag roof, maple floors, metal lath, roof ventilators, rolled steel skylights, bond, dampproofing, ornamental iron work (heating, plumbing and electric work separate bids). Owners taking bids due August 11th at 8 P. M.

Residence, Sedgwick, Pa. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owner, F. E. Hipple, 1529 North Broad street, Philadelphia. Stone, 2½ stories, 39x28 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work, waterproofing, bond. Architect taking bids due August 11th.

Office, South Springfield, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, John J. Dougherty, Sixty-ninth Street Terminal Building, Philadelphia. Brick, steel, 1 story, 14x23 feet, slag roof, cement floors, steam heat, electric light, metal lath, ornamental iron work. Architects taking bids due August 10th.

School, North Whitehall Township, Lehigh County, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, North Whitehall Townshsip School Board, Paul Meckley, secretary, care of architects. Brick, 2 stories, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work, safety treads, roof ventilators, waterproofing and dampproofing. Architects taking bids due August 16th.

Nurses' Home, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Hospital, care of Monsignor Masson, Allentown. Brick, 4 stories, 37x105 feet, slag roof, hardwood floors, electric light, metal lath, tile work. Architects taking bids.

School, Penllyn, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School District, Pennllyn, Pa. Brick, steel, 1 story, 58x76 feet ,slate roof, maple floors, tile and marble work, iron work. Owners taking revised bids due August 10th.

Residence, Paoli, Pa. Architect, Earl N. Edwards, 1012 Walnut street, Philadelphia. Owner, V. B. Wilmer, care of architect. Concrete block ,stucco, 2½ stories, 49x22 feet 10 inches, shingle roof, tile, cement and oak floors (plumbing, heating, electrical and tile work reserved), rolled steel sash. Architect taking bids.

Rectory, Strafford, Pa., $25,000. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owners, Roman Catholic Church of Our Lady of Assumption, Strafford, Pa. Stone, 3 stories, 44x64 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in one week.

Residence, College street, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Dr. H. H. Mentzer, Carlisle, Pa. Brick, tile, 2½ stories, 36x38 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect taking bids due August 16th.

Store and Office Building, Broad and Wyoming streets, Hazleton, Pa. Architect, private plans. Owners, Markle Banking & Trust Co., Alvan Markle, president, Hazleton, Pa. Brick, stone, 12 stories, 47½x100 feet. Will be ready for bids in three weeks.

Pennsylvania Contracts Awarded

Hospital (add.), Scranton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Sisters of Mercy, care of Mother Superior, Wilkes-Barre. Brick, fireproof, steel, 5 stories and basement, 40x140 feet and 140x116 feet, concrete foundations, tile and maple floors, high pressure boiler, electric light, tile and marble work, elevators. Contract awarded to Beilman & Son, 220 Ash street, Scranton, Pa.

Church, Eighteenth and State streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, State Street U. B. Church, Rev. Rhoad, North Eighteenth street, Harrisburg, Pa. Stone, 1 story and basement, 70x90 feet, tile or slate roof, maple floors, steam heat, electric light, metal lath, roof ventilators, rolled steel skylights, waterproofing. Contract awarded to C. W. Strayer, Green and Forster streets, Harrisburg, Pa.

Residences (2), Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, M. T. Garvin, 31 East King street, Lancaster. Brick, 2½ stories, 20x28 feet, slate roof, hardwood floors, hot air heat, electric light. Contract awarded to Ray Clark, 248 South Ann streeet, Lancaster.

Odd Fellows' Hospital, Chestnut street, Lancaster. Architect, W. Guy Linville, 509 South Lime street, Lancaster, Pa. Owners, I. O. O. F. Hall Association, care of architect. Brick, structural steel, 3 stories, 144x60 feet, slag roof, compositioin floors, steam heat, electric, waterproofing. Contract awarded to D. S. Warfel, 39 East Grant street, Lancaster.

Nurses' Home, Windber, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Windber Hospital, Windber, Pa. Brick, hollow tile and stone, 3 stories, 80x90 feet, slate roof, maple and oak floors, dumb waiter, vapor heat, electric light. Contract awarded to Berkelbile Brothers, Johnstown, Pa.

Residence, Lancaster Pike, Overbrook, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, John McGlinn, 145 South Second street, Philadelphia. Stone, 2½ stories and 1½ stories, 51x44 feet, wing 77x22 feet, garage, 25x49 feet, slate roof, oak and pine floors, electric light (heating and plumbing reserved), tile and marble work, bond. Contract awarded to Milton W. Young, Overbrook, Pa.

Residence, Bryn Mawr, Pa., $22,000. Architect, Edwin A. Yeo, 225 South Sydenham street, Philadelphia. Owner, Wilbur F. Smith, 3318 Park avenue, Philadelphia. Stone, 2½ stories, 28x38 feet and 15x19 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved), tile work. Contract awarded to Herbert G. Campion, Otis Building, Philadelphia.

Residence and Garage, Cynwyd, Pa. Architects, Rehfuss & North, 10 South Eighteenth street, Philadelphia. Owner, R. G. Kennedy, 115 South Thirty-seventh street, Philadelphia. Stone and stucco, 2½ stories, 32x30 feet, slate roof, oak, pine and composition floors, electriic lighting, bond. Contract awarded to George R. Markle, Narberth, Pa.

High School, Freeland, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Freeland School Board, O. W. Fairchilds, secretary, Freeland. Brick, 2 stories and basement, 150x100 feet, slag roof, hardwood floors. Contract awarded to James Boyle, Freeland, Pa.

School (add.), William Penn, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, West Mahonoy Township School Board, Lost Creek, Pa. Frame, 2 stories, 4 rooms, general alterations. Contract awarded to George C. Grow, Shenandoah, Pa.

Warehouse, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Louis Cohen & Son, Wilkes-Barre, Pa. Brick, steel, 2 stories, 40x150 feet, slag roof, pine floors. Contract awarded to Schmitt Const. Co., Wilkes-Barre, Pa.

Rectory and and School, Luzerne, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Solvak Roman Catholic Congregation, Rev. G. A. Beduick, Larksville, Pa. Frame, 2 stories and basement, 62x100 feet, rectory, 2½ stories, 34x50 feet, slate and slag roof, pine and composition floors, concrete foundations, steam heat (heating and plumbing reserved), electric light, tile work, metal lath. Contract awarded to Thomas Hiland, Scranton, Pa.

Freight House (add.), Lancaster, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Reading & Columbia R. R. Co., Reading Terminal. Brick and steel, 1 story, 30x192 feet, J-M roof, maple and concrete floors, electric light, rolled steel sash, bond, iron work. Contract awarded to David S. Warfel, Lancaster, Pa.

Double Residence, Second and Geiger streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, J. H. Kreamer and Dr. J. A. Sherger, 1809 North Sixth street, Harrisburg. Stone, 2 stories, 40x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Delson & Stephenson, Harrisburg, Pa.

Mercy Home (add.), Second and Liberty streets, Harrisburg, Pa. Owners, Sisters of Mercy, care of architects. Architects, Johnston & Starr, Harrisburg, Pa. Brick, 3 stories, 20x60 feet, slag roof, hardwood floors, heating extension, electric light, metal lath. Contract awarded to John Staff, Harrisburg, Pa.

Hotel (remodeling and add.), Fourth and Market streets, Harrisburg. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owner, Peter Magaro, on premises. Brick, 5 stories, slag roof, hardwood floors, new front (plumbing reserved). Contract awarded to C. J. Bushsong, 1713 Boas street, Harrisburg, Pa.

Residence, Dallas, Pa. Architect, T. H. Atherton, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Dr. A. McClintic, Dallas, Pa. Frame, 1½ stories, 60x20 feet, metal roof, pine floors, vapor heat, electric light, tile work. Contract awarded to H. Ide, Idetown, Pa.

Theatre (alts.) to Store and Apartment, Hazleton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, H. L. Campbell, on premises. Stone front, steam heat, electric light, pine floors, metal lath, tile and marble work. Contract awarded to Campbell Const. Co., Hazleton, Pa.

Double Residences (4), South Ardmore, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owner, Mrs. Agnes Perrot, 1405 North Sixteenth street, Philadelphia. Concrete, stucco, 2½ stories, 30x50 feet, slate roof, oak floors, hot water heat, electric light, tile work. Contract awarded to W. J. Ford, South Ardmore, Pa.

School (add.), Cheltenham, Pa. Architect, Herbert C. Wise, 1416 Chestnut street, Philadelphia. Owners, School District of Cheltenham Township, P. R. Scarborough, secretary, Elkins Park, Pa. Brick, fireproof, 1 story and basement, 35x75 feet, slag roof (heating and ventilating separate bids), steam heat, bond. Contract awarded to Lawrence R. Hurley, Bulletin Building, Philadelphia. Plumbing, $425, and electrical work, $390, included in general contract. Heating to Harry F. Murphy & Co., 1615 Sansom street, $4,725.

New Jersey Construction News

Grammar School, Woodbury, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education of Woodbury, Walter B. Wooley, secretary, Woodbury, N. J. Preliminary plans in progress.

School, Gloucester Heights, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Haddon Townshsip School Board, Gloucester Heights, N. J. Brick, 2 stories, 88x25 feet, slag roof, pine floors, steam heat, electric light. Plans in progress.

Residence, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owner, Bruce Bedford, Luzerne Rubber Co., Muirheid avenue, Trenton. Brick, 2½ stories, 58x33 feet, slate roof, hardwood floors, vacuum steam heat, electric light, tile work. Plans in progress.

Office, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Standard Fire Insurance Co., 15 West State street, Trenton. Fireproof, 2 stories and basement, 60x100 feet, slag roof, hardwood floors, electric light, metal lath, rolled steel sash. Architect will be ready for bids in ten days.

Residences (9), Pleasantville, N. J. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owners, C. Jellinck, Pleasantville, N. J., and J. K. Malis, 109 North Fourth street, Philadelphia. Frame, 2 stories, 20x40 feet, composition shingle roof, pine floors, hot water heat, electric light. Owner taking sub-bids.

Residence and Garage, Plaza avenue and Beach, Ventnor, N. J. Aochitects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, M. W. Newton, care of Newton's Hotel, Eighth and Chestnut streets, Philadelphia. Brick, 2½ stories, 96x40 feet, garage, 1½ stories, 20x30 feet, slate roof, oak and N. C. pine floors (heating reserved), electric lighting, metal lath, tile and marble work, metal weather strips, bond, dampproofing, ornamental iron work. Architects taking bids due August 14th.

Residence, Ventnor avenue and Somerset street, Ventnor, N. J. Architects, Hewitt & Ash, 1827 Arch street, Philadelphia. Owner, Mrs. R. W. Richards, Cheltenham-Revere, Atlantic City. Hollow terra cotta, stucco and brick, 2½ stories, 53x35 feet, slate roof, oak and yellow pine floors, hot water heat, electric light, tile work, dampproofing, ornamental iron work. Architects taking bids due August 14th.

Comfort Station, Trenton, N. J. Architect, R. G. Consolley, Commonwealth Building, Trenton, N. J. Owners, City of Trenton, Mr. Page, chairman, City Hall, Trenton. Brick, 1 story, 45x16 feet, tile roos and floors, electric light. Owners taking bids due August 11th.

Lodge Building (alts. and add.), Stores and Apartments, Moorestown, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owners, Senior Order of United American Mechanics, William H. Leuallen, 262 South Third street, Moorestown, N. J. Bricy and stucco, 3 and 1 stories, 24x40 feet, tin roof, pine floors, hot water tank, metal bulks, iron stairs. Owners taking bids due as soon as possible.

Apartment House, Ventnor, N. J., $60,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Howard G. Harris, agent, Atlantic City, N. J. Brick, 3 stories, 56x60 feet, slag and tile roof, hardwood and tile floors, hot water heat, electric light, tile work. Architect taking bids due August 14th.

Residence, Greenwood avenue, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, Louis Kuehner, 517 Tyler street, Trenton, N. J. Brick, 2½ stories, 35x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due August 10th.

Residence and Store, 301-03 Garfield avenue, Trenton, $6,000. Architect, private plans. Owner, P. F. Ferguson, 194 Rosemont avenue, Trenton. Brick, shingle, 2½ stories, 30x40 feet, slate roof, pine floors, steam heat, electric light. Owner will build.

Store (alts.), 18 North Broad street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Carlton Clothes Store, care of architect. Steel (structural), copper front, electric light, plate glass. Owner will build.

New Jersey Contracts Awarded

School, Pitman, N. J., $155,917. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education, Pitman, N. J. Brick, steel, hollow tile and stucco, 2 stories and basement, 161x112 feet, composition roof, mastic and pine floors, roof ventilators, fireproofing, waterproofing, iron stairs, bond, metal lath. Contract awarded to Chester Const. Co., Chester, Pa.

Club House, Atlantic City, N. J., $100,000. Architect, Frank Berry, Real Estate Trust Building, Philadelphia. Owners, Stella Maris Court, No. 288, Catholic Daughters of America, care of Rev. John T. Sheehan, Atlantic City. Brick, 3½ stories, 60x105 feet, slag and slate roof, pine floors, hollow tile, tile and marble work (plumbing, heating and mechanical equipment separate bids), electric lighting, waterproofing and dampproofing. Contract awarded to Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J.

Residences (2), 915 Olive street, Trenton, N. J., $7,600. Architect, private plans. Owner, E. E. Treptow, care of builder. Brick, 2½ stories, 18x30 feet, slate and slag roof, pine floors, electric light. Contract awarded to Joseph Sujansky, 818 Spruce street, Trenton.

Hotels (alts.), near Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton. Owners, West End Hotel, care of architect. General interior and exterior alterations, plumbing. Contract awarded to Westley Gibbs, Trenton, N. J.

Miscellaneous Construction News

Hospital for Communicable Diseases, Baltimore, Md. Architect, Edward H. Glidden, Baltimore, Md. Owners, City of Baltimore, Dr. C. Hampton Jones, Commissioner of Health, Baltimore, Md. Brick, steel, granite, concrete, laundry building, 2 stories, 138x48 feet, garage, 1 story, 89x28 feet, kitchen, 3 stories, 68x61 feet, pavilion C, 2 stories, 130x35 feet, nurses' home, 3 stories, 120x43 feet, administration building, 3 stories, 89x40 feet, power plant, 1 story, 84x47 feet, Pavilion B, 4 stories, 188x44 feet, Pavilion A, 4 stories, 190x36 feet, steam heat, electric light, metal lath, tile and marble work. Owners taking bids due August 16th at City Register's Office.

Mausoleum, Zanesville, Ohio, $100,000. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Capitol City Mausoleum Co., Zanesville, Ohio. Granite and marble, 1 story, 97x35 feet, bronze work. Owners will build.

Residence, Belmont and Massachusetts avenues, Washington, D. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, name withheld. Brick, cut stone, steel, 3 stories, 46x35 feet, wing 20x20 feet, garage, 1½ stories, 20x25 feet, composition roof, vapor heating, electric lighting, terra cotta (oak floors reserved). Contract awarded to William P. Lipscomb, District National Bank Building, Washington, D. C.

Proposals

TREASURY DEPARTMENTN, Office of the Supervising Architect, Washington, D. C., August 4, 1922. Sealed Proposals will be opened in this office at 3 P. M., August 31, 1922, for remodeling and extension of kitchen and mess building, etc., and for construction of new ward units Nos. 1 and 2, and isolation ward and quarters for nurses and for attendants (except mechanical equipment) for the United States Marine Hospital at Baltimore, Md. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals,

firms, or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 28, 1922. Sealed Proposals will be opened in this office at 3 P. M., August 17, 1922, for the construction of approximately three and six-tenths miles of concrete road, including clearing and grading, culverts, etc., for the United States Veterans' Hospital, at Tuskegee, Ala. Drawings and specifications may be obtained from the Superintendent of Roads at Tuskegee, Ala., or at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment ,and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's office, Washington, D. C., Aug. 5, 1922.—Sealed proposals will be opened in this office at 3 P. M., Aug. 31, 1922, for the Mechanical Equipment of two new Ward Buildings, Isolation Unit, Nurses' Quarters, Attendants' Quarters, Kitchen and Mess Hall, Boiler House, Outside services, Plumbing, etc., in three present ward buildings and Administration building, etc., for the U. S. Marine Hospital, at Baltimore, Md. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individual firms, or corporations, possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 7. 1922.—Sealed Proposals will be opened in this office at 2 P. M., Aug. 28, 1922, for furnishing and installing fly screens in the buildings of the U. S. Public Health Service Hospital, at Augusta, Ga., in accordance with the specification and drawings listed in same, copies of which may be obtained from J. M. Geary, Superintendent of Construction at the hospital site, Augusta, Ga., or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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course, to develop the sentiment of public's opinion relative to the building industry, its abuses and its problems and its embarrassments, or with a view perhaps of securing the co-operation of the public in meeting some of the various problems which you have.

Possibly in dealing with seasonal activity and reducing that to a minimum but at any rate no institution smaller than this, no one of the integral parts of this institution would be capable of carrying on any campaign of public education such as may be needed from time to time in connection with the construction problem. Perhaps we will develop a new word now and call you all constructionists just as we refer to other branches of the industry as industrialists.

Then there is the labor problem, which is far from being the least of your problems. There has been very little constructive effort in dealing with the labor problem in construction industries. Vocational training, proper regulation of apprentices, the control of the labor supply, these are all matters which cannot be worked out in an industry like this without co-operation between the employers and the unions organized in that industry and it does seem to me that there is great hope for constructive work along very broad lines which require the co-operation of all units to secure better results in this direction.

The same may be said of the question of unemployment. Also in respect to efficiency, a most abused word. I do not think there is any industry in the United States which has fallen lower on the subject of labor efficiency than the building industry, and I do not believe that when this organization with representatives of the unions dealing with it meet such problems face to face, that it will in the end find any great difficulty in meeting some of these problems of labor efficiency.

We all know that there are many jobs for which are paid handsomely to do little or no work and which must be revised if we are to save a large amount of economic waste for the benefit of the public.

The difficulty arises today because of the distrust and suspicion existing between the different units. If once you met constantly, not merely for the purpose of adjusting disputes but with a view to discussing these problems on a broader constructive line, there is little question, in my mind, but what this whole question of efficiency can be dealt with. If a plan can be worked out whereby the employees will feel assured that they will receive some of the extra pay which flows from extra efficiency and that such extra effort and extra efficiency means not merely putting money into the pockets of the employer but also means putting some of the money into the pockets of the employes, there should be no difficulty in securing some advancement in this direction.

Industry has accomplished great achievements in many directions, but it has not yet won its spurs in moral human relations. In the factories there are developing movements of a very promising nature looking for the joint co-operation and common council in connection with matters of mutual interests. The intra-factories council plan which now represents nearly a million employes has produced an amazing result in this direction. This industry has not the same opportunity because they are not brought together daily in the same building and under the same roof with the management the same group of employees whereby they can be dealt with and discussed with day after day relative to the duties and opportunities which are involved in the industry, but this movement must work out some method of common council and joint action relative to many of the crying needs of labor. It must have machinery for contact through representation on both sides, not only for the purpose of adjusting the disputes but for the purpose of working out broader constructive problems. The more intimate you can make the contact the less necessary will it be to lay down regulations inelastic, inflexible rules which are to apply under all circumstances.

For the two parties working side by side in the laying down of proper conditions of employment will be able to watch the abuses and thereby avoid the necessity of all regulative and restrictive standards. As I see the building trades industry at the present time the relations between employers and employees are simply that of period armistices and not relations of real co-operation and constructive effort. To meet that situation and place those relations upon a more durable basis this Council in the end must work out some more constructive plan for more continuous contact for a greater degree of common council and joint action in reaching the problems which are of mutual interest to employer and employee. As a lawyer it is very easy for me to throw that at you without any idea as to how it shall be done but nevertheless it must be done and you will not meet one of your greatest problems unless the broader vision which this movement exhibits does compensate itself upon the solution of that problem.

It also seems to me that this institution should attempt to erect some machinery for arbitration. I believe you should have a committee on arbitration, an official list of arbitrators, arbitration forms, and that men should be encouraged, whether they be employers or employees, buyers or sellers or contractors of any kind, to submit their difficulty to arbitration in order to avoid the cause and delay of litigation.

Should not we work towards a plan

whereby all contracts are made subject to the requirement that disputes should be arbitrated in accordance with the arbitration machinery of the American Construction Council?

I believe there is a great duty in that direction. In the Silk Association, of which I am counsel, practically every contract is taken with a clause of that character requiring arbitration in accordance with the rules of the Silk Association of America. The great sweep of the time is toward arbitration. You know the tribunal that has been set up in New York by some public spirited men to deal with arbitration. We know the new New York State statute places no limit whatsoever upon arbitration contracts and their enforceability.

This movement to be line with that tendency which is altogether good should undertake to establish a committee to work out that problem and encourage the settlement of disputes among yourselves by men who are familiar with the technical problems and the practical business standards as distinguished from the theoretical standards which control in your own particular industry.

The construction industry is a well organized industry. You do not need a new organization. You need co-operation between the organizations. The evils of the construction industry are the evils of organization and not the evils of the individual. The public's condemnation of the construction industry is the condemnation of certain practices which are incident and outgrowth of organization. Now we all believe in organizations. They are to play big parts in the reconstruction of America. We know from what I have said at the outset that methods of co-operation in this direction through voluntary associations which try to solve problems without the interference of government is all important, but in this industry we are confronted with the fact that you have organizations, in some respects being the most highly organized of all commercial activities, and that your difficulties are the outgrowth of those organizations. The reason for that, in my judgment, is that each organization has been pursuing its own narrow selfish policy without any regard to the policy of the industry as a whole. The reason for that is because the different organizations have not come together to mutually discuss their problems so as to dispose of them with a mutual regard to the problems of everybody else.

Now your institution is the kind to meet that particular issue, the issue of co-operation between these various organizations, each of which need much correction and reformation. (Applause).

As conditions have grown more complicated, as you have been threatened with legislative interference, as you have been frightened by a wave of public condemnation, you have come to appreciate that point of view and have gathered together all of these larger elements in the hope that the whole may be able to soften and restrain the abuses of each individual group.

It will be necessary for each group to lay down its code of practice, but that code of practice must pass muster with the American Construction Council, and each group if it is acting in good faith in furtherance of this great co-operative enterprise must be prepared to accept the judgment of the American Construction Council. The employers will to a large extent be influenced in their code by what the architect and the engineers and the employees say. The labor organizations must be influenced in the laying down of their code as to what the organization and the engineers and the contractors say. So that this great industrial opinion, this matter of developing a code, is going to be determined very largely by people who have not retained narrow selfish interests but people who have the larger vision for the good of the interests as a whole and of the public as a whole.

In that way we are going to get out of this slough of despond which is due entirely to the fact that each particular organization in the past has been pursuing is own narrow selfish policy without regard to the interests of all of the other organizations.

So I wish to say to you now by repetition: Do not forget, if you believe my diagnosis is correct, that your great function is that of a federation which must correct and reform the affiliated group in connection with many of their views and

This must be done largely by co-operation rather than by discipline. You cannot strike at the recalcitrant. There is a limit to what the law will permit you to do in the day of discipline. In this country individualism has the right of way. Collectionism has a great function to perform. As Mr. Gompers well said, "The function of collectionism is to furnish a larger opportunity for individualism" and that must be the test. I am using my own words now. That must be the test of sound collectionism.

If men persist in striking below the belt, if organizations persist in striking below the belt, there is a limit to what you can do to correct them. You cannot assume foreign power; you cannot interfere with the fundamental rights of anybody to assist and pursue his trade or conduct his business in this country. Your arsenal must contain in it only the weapons of education, common counsel and co-operation, with a discipline which must be exceedingly well thought out and must not conflict with legal restraints. You cannot dictate to men how they shall conduct their businesses. Men may unite to further liberty because that is one of the forms of government. Men may not unite to restrict liberty, because that is against the functions of government.

This great construction industry must be an open industry of open associations and of open activities. No group can regard its business as a private fraternity. Now this all bears on one of the greatest problems which you have before you and which is one of the most concrete problems to which I wish to refer and that is the problem of the jurisdictional dispute. I believe that jurisdictional dispute is wrong in principle and that many of the present labor leaders believe that, because it is a dog eat dog policy as between orthodox legitimate unions. A rate should be fixed for an operation and the employers should be free to employ on a union job any member of any union who is competent to do that work, provided the employer pays that rate. By bringing together all these interests that ideal may be attained. At least, it is one for which we should strive. It seems to me it is for the advantage of every single interest that that ideal should be attained and particularly for the advantage of the workers themselves.

If the journeyman on the job can, after he finishes one line of work, go on to another related line of work it is far better for him than to waste the time by going around to get a job on another building. If the journeyman on the job is permitted by the development of a broader craftsmanship which makes him skillful in more than one line of work, to be rewarded in those various lines of work he has developed into a bigger and a finer citizen and this element which we constantly refer to where a worker is regarded as but a cog in a wheel is reduced to a minimum. In other words, in the building industry I think we have a broader opportunity than we do in the ordinary factory industry of permitting a broader craftsmanship and of avoiding the monotony of detail where one man screws bolt No. 2 on a Ford automobile.

In my judgment this tendency, this opportunity, if exploited to its uttermost will make a happier and a better industry with less economic waste than the industry which we have at the present time.

(Continued Next Week)

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

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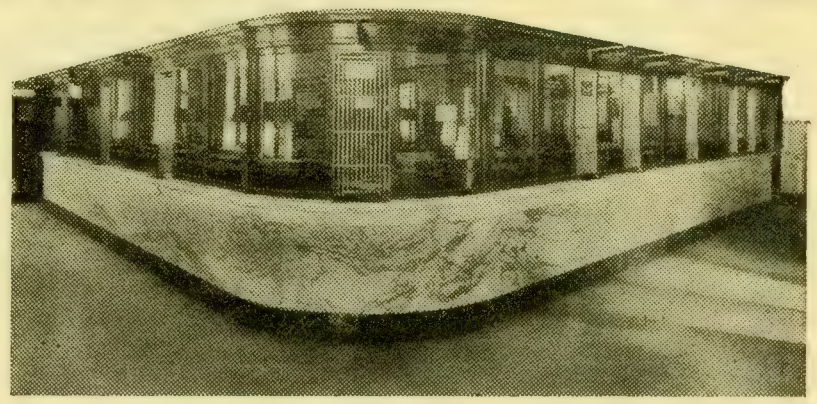
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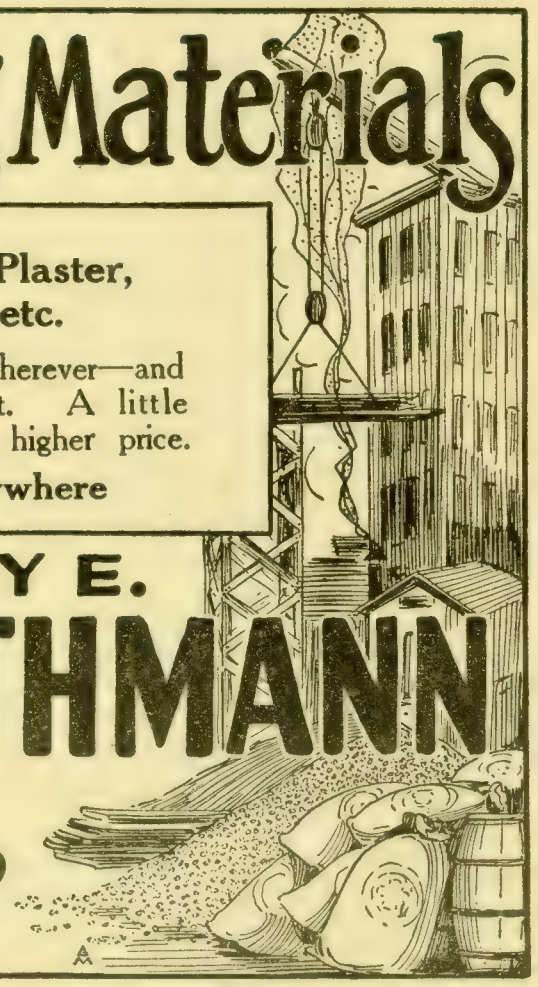
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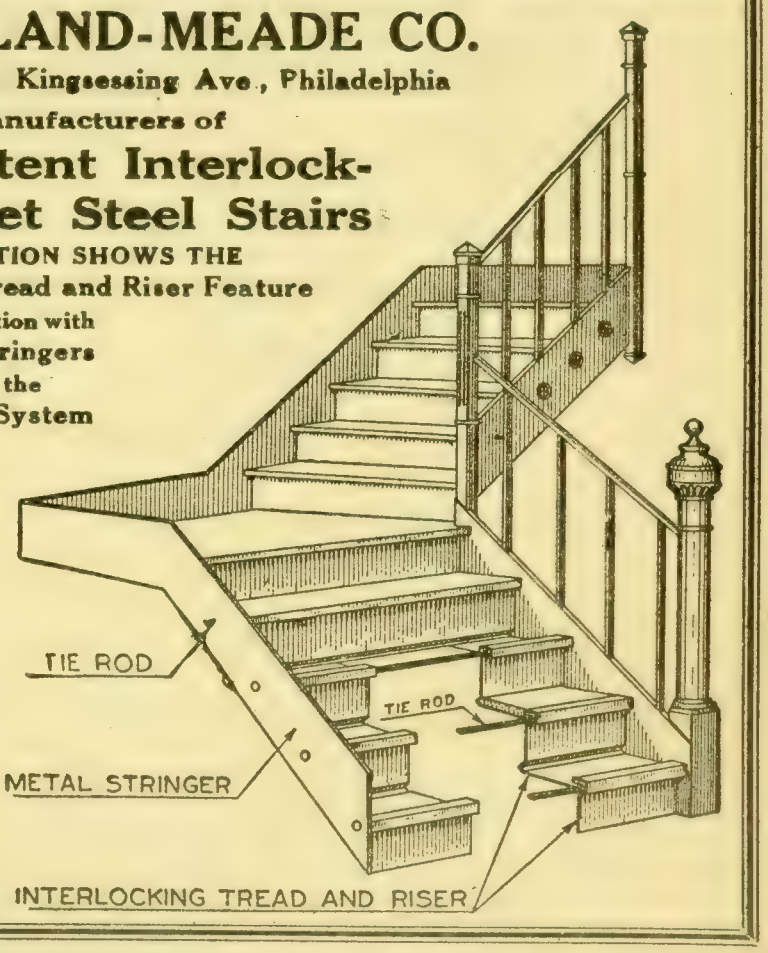
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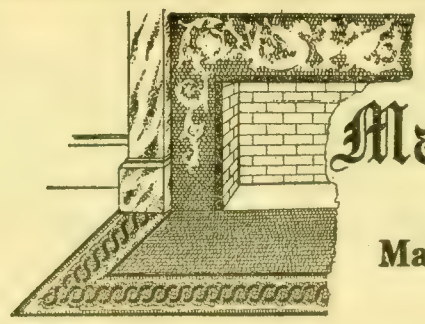


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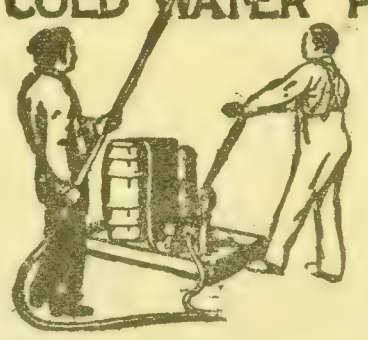
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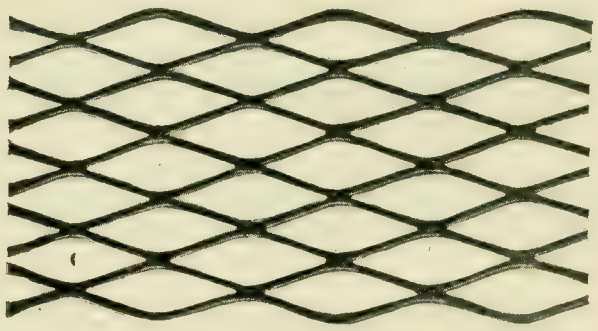
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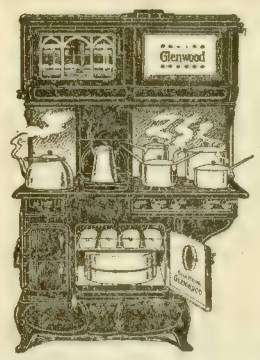
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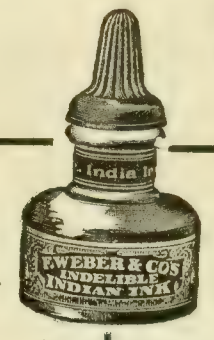
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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August 16, 1922

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As The Editor Sees It

DETERMINING THE PROPER RELATIONS BETWEEN THE SEVERAL ELEMENTS IN THE CONSTRUCTION INDUSTRY

(Continued from last week)

But let me also emphasize another phase of this same problem. In my judgment, as a lawyer, you cannot legally lay down a rule that a sheet metal door shall be erected throughout the United States by a member of the Sheet Metal Workers' Union and in so doing you are committing an illegal act. You cannot lay down the rule that throughout this vast land of ours the million men who will compose this organization can lay down the rule that no doors shall be purchased and no doors shall be erected except they are under terms and stipulations providing for that erection by a member of the Sheet Metal Workers' Union and as soon as you try that, you will be subjecting yourself to legal challenge.

So the line of constructive effort lies with the line of truly lawful effort. You can lay down the rule that there shall be no organized interference with any employer or union man in performing any work which the two agree that worker is competent to perform. In other words, the jurisdictional dispute should not be a legitimate subject of industrial warfare, and there is no interest in any of the elements if once they thoroughly canvass this thing with the larger outlook for laying down such a rule.

I hope that all interests connected with this American Construction Council will in the end be able to lay the ax at the root of this abuse by common consent of everybody that it redounds to the disadvantage of everybody.

One of the foremost complaints against the building trades industry concerns the restrictive, exclusive and monopolistic agreement on the part of contractors and workers, which restricts competition in men and materials and lays the foundation on which such evils as extortionate prices, blackmail, graft and other evils which have been heralded to the public, thrive. If you can change that foundation, those evils will disappear. If you do not change that foundation it is difficult for me to see when I understand the weaknesses of human nature, how those evils are going to disappear. Until you admit those evils, until you discuss them, and seek to remedy them, you cannot win and you do not deserve to win the confidence of the public, because that is the great outstanding price of the industry at the present time. You cannot cope with them through your institutions and you will have to cope with them through the law.

One of the greatest evils in your industry today, as I understand it, and hope you will all agree with me, is bargaining with corruptionists, for fear that any attempt to uncover corruptionists will lead to embarrassment in the future conduct of that particular system.

And nobody here has said a word about it since we have gathered. Nobody here has suggested how we are going to meet it, but we have got to meet it. We have got to devise machinery and aim to purge our own minds and prosecute and exterminate corruptionist, whether he be the supervisor on the job, the labor agitator or the combination which fixes prices, and until this organization heralds to the public that that is one of the primary purposes of this organization, that it proposes to clean house as to these abuses which aroused public condemnation, it cannot forward with the amount of public enthusiasm and sanction it so sincerely desires.

We have talked about disciplining the nonconformists. I have heard that from various people but the first person to discipline is the violator of law, the violator of the principles of common honesty and until we develop a respect for law and respect for common honesty it can best be developed by prosecuting people who indulge in these practices and thereby bringing up an industrial opinion and general public opinion which will elevate the whole standard of the industry we cannot expect to attain what should be one of the foremost objects of this organization.

This institution as a projected move-

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ment has my most hearty approval. It is a step in the right direction. Whether it will take the right course or the wrong course, nobody can say, but if it makes clear to the public that it seeks to eradicate the abuses and evils of this industry, not only for the purpose of improving the opportunities of each and every one of us within the industry, it cannot hope to revive that prosperity which we all seek to have revived and cannot hope to re-establish itself in public approval.

BUILDING COSTS refuse to "stay put." An extensive eastern trip by one of the editors showed that nearly everywhere building now costs more than it did last fall, or in the early spring. Well-posted builders in Cleveland, Ohio, said costs had increased there in the past few months 25 to 30 per cent. They said each new material bill shows some advances, while union wage scales have come to mean little in most of the skilled trades. Good workmen are hard to get and the wages they obtain from sorely pressed contractors and builders correspond. In the outlying parts and suburbs of New York City it was said a plasterer easily made $20 per day. In Newark, N. J., a negro was recently arrested in morning hours for speeding his automobile. Brought to a police station he produced a huge roll of greenbacks and deposited $25 cash bail, jumped into his car and speeded away. want to be late for work.
He said he was a hod carrier and didn't

This increase in costs is apparently the result of several factors, the most important of which is the great demand for houses and small buildings of all kinds. Operations of this kind are generally not as expeditiously nor as efficiently handled as larger jobs, and require more laborers in the aggregate than the same amount of larger construction. Also there is not the same control of costs as in business buildings. The continuance of the strikes of the coal miners and the railway employees is having a very appreciable effect on prices of building materials and will have more effect as the season advances. It is freely predicted that a car shortage of the same character as existed in the fall of 1920 is now a certainty. The Associated General Contractors of America, and many other organizations and agencies interested in promoting building, are urging that all possible shipments of materials be made immediately, and that cars be promptly unloaded.

Contractors and builders should plan their work ahead for the next few months so as to avoid so far as possible expensive delays for want of necessary materials later on. Co-operation with local dealers and with building material producers is very essential, if the building needs of various local communities are going to be adequately taken care of. Every indication points to a year of record construction, provided building material needs can be taken care of before the expected transportation pinch occurs. June construction contracts for the country as a whole were appreciably less than in the record-breaking early spring months, but in this respect 1922 does not differ from other years. It merely means that work on contracts let in March and April is now in full swing and it is difficult for contractors and builders to take on any more. On the other hand, building permits increased.

Chicago Situation

Building permits issued in the city of Chicago for the *six months* from January 1 to July 1 totaled nearly $112,000,000, which is a larger figure than any previous total for a *whole year,* by over $1,500,000! "The figures are a striking proof of what can be accomplished when building is unhampered by strikes, extortion, and restrictions upon the use of building materials," said F. W. Armstrong, general manager of the citizens committee to enforce the Landis award.

An analysis of contracts reported let between May 10 and July 7 showed the committee contractors to be winning 82 per cent. of all work costing $25,000 or over. The figures were, Landis award contractors $25,328,000; non-Landis contractors $5,485,000.

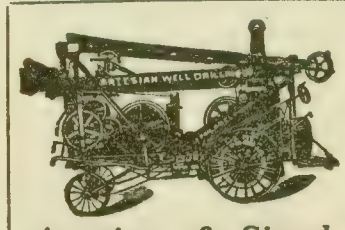
"A peculiar feature of the statistics," said Mr. Armstrong, "is the steady drop in the activities of the so-called speculative builders who have been operating heavily in the apartment building field with the idea of making quick and profitable sales as soon as a building is completed."

The Citizens committee celebrated the Fourth of July by passing the 15,000 mark in the mechanics placed in the Landis award army. The exact number of mechanics placed to July 5 in the thirteen "outlaw" trades was 15,073, of which 5,881 wer carpenters, 2,308, laborers, and 2,027 painters.

Recently the terrazzo mechanics, inspired by the amount of work in sight, struck for an increase of 10 cents an hour and the substitution of a new contract for the one given them by Judge Landis. The contractors appealed to the committee. After several conferences, a number of terrazzo mechanics were brought in from outside cities and crews were organized. The union heard of it and underwent a change of heart regarding the extra ten cents. The organization, meanwhile, had been placed on the open-shop list because of the strike, so the men went back to work in an individual

(Continued on page 531)

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Factory, 926-28 Locust street, Philadelphia. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owners ,Finkelstein Brothers, 303 South street, Philadelphia. Concrete and steel, 5 stories and basement, 33x105 feet, slag roof, concrete, slag, wood and concrete floors, (2) elevators, rolled steel sash, vapor heat, electric light. Plans in progress. Architects will take bids in one week.

Residence, Fifty-second and Woodbine avenue, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, J. A. Richman, Thirteenth and Chestnut streets. Stone, 2½ stories, 68x32 feet, slate roof, oak and pine floors, electric light, tile work (heat reserved). Revised plans in progress.

Office Building, Thirteenth and Locust streets, Philadelphia. Architects, Ballinger & Co., Twelfth and Chestnut streets, Philadelphia. Owners, Philadelphia Real Estate Board, 1126 Walnut street, Philadelphia. Architects taking revised bids due as soon as possible.

Recreation Centre, Mitchell and Pennsdale streets, Roxborough. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Bureau of Recreation, Department of Public Welfare, C. H. Warburton, Director, 595 City Hall, Philadelphia. Concrete work, terra cotta pipe, cast iron frames and gratings, cement curbs and sidewalks, iron gates and fences, hardware, painting, wire screens, drinking fountains. Owners taking bids due August 22nd.

Armory (alts. and add.), 4111 Mantua avenue, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Armory Board, State of Pennsylvania, Benjamin W. Demming, secretary, Harrisburg, Pa. Brick and steel, 2 stories and basement, tin and composition roof, granolithic and composition floors, bond, wire work (heating, lighting and plumbing separate bids). Owners taking bids due August 22nd at noon.

Packing House, Franklin, Callowhill and Willow streets, Philadelphia. Architect, private plans. Owners, Standard Provision Co., care of Mr. Rabinowitz, 212 North Front street. Brick and reinforced concrete, 3 stories, 160x70 feet and 60x90 feet, concrete floors, cement floors, elevators, waterproofing, iron work, floor hardener, rolled steel and fire doors, hollow metal window frames, hollow metal skylights, rolled steel sash, tile work, electric light, steam heat. Owners taking bids due September 1st.

Apartment House, Forty-sixth and Osage avenue, Philadelphia. Architect, Henry L. Duhring, 1309 Locust street, Philadelphia. Owner, Samuel Cohen, 411 South Sixty-second street, Philadelphia. Brick, limestone, castone, steel and stone, 3 stories, 84x94 feet ,slag roof, hardwood floors, hot water heat, electric light, tile and marble work, fire doors. Owner is ready for sub-bids.

Commercial Building, 1537-39-41 Vine street, Philadelphia. Architect, Max Bernhardt, 721 Walnut street, Philadelphia. Owner, Dr. B. R. Simon, Tenth and Market streets, Philadelphia. Preliminary plans in progress. Too early for details.

Residence, Oak road, Germantown, Philadelphia, $20,000. Architect, Harry Blum, 3117 Euclid avenue, Philadelphia. Owner, Henry Goldthorp, Orleans and Jasper streets, Philadelphia. Stone, brick and stucco, 2½ stories, size of lot 100x221 feet, slate roof, electric lighting, hardwood floors, tile and marble work. Plans in progress.

Store Building, Southwest Corner Thirteenth and Sansom streets, Philadelphia. Architect, Frank E. Hahn, 111 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streeets, Philadelphia. Brick, reinforced concrete and steel, 3 stories and basement, 20¼x60 feet, slag roof, pine floors, roof ventilators, dampproofing, ornamental iron work, bond, kalamein doors, tile, marble and slate work, metal lath, steam heat, electric lighth (lighting fixtures reserved). Architect taking bids due August 17th.

Southwest Sewage Pumping Station, Fortieth Ward, Lowland Drainage, Island road section, Philadelphia. Owners, Bureau of Surveys, Department of Public Works, Frank H. Caven, Director, 16 City Hall, Philadelphia. Conts. No. 1, sub-structure and superstructure; No. 2, mechanical equipment; No. 3, electrical equipment; No. 4, plumbing system; No. 5, heating and ventilating systems. Owners taking bids due eSptember 7th at noon. Inquire Room 416.

Residences (24), $115,200, 601 to 635 and 624 to 634 West Bristol street, Philadelphia. Architect, private plans. Owner, Francis B. J. Branagan, 932 West Wyoming avenue, Philadelphia. Brick, 2 stories, 16x43 feet, 11x10 feet, slag roof, oak floors, hot water heat, electric light, tile work. Owner will build.

Residence (alts.) to Apartments, 1902 Erie avenue, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owner, R. Schiff, on premises. Architect taking bids.

Residences (2), 170-72 West Fisher's Lane, Philadelphia, $8,000. Architect, private plans. Owner, J. Charles Yundt, 301 Tabor Road. Brick, 2 stories, 14x40 feet, slag roof, oak floors, hot water heat, electric light, tile work. Owner will build.

Garage, 3425 North Second street, Philadelphia, $2,000. Architect, private plans. Owner, Joseph F. Queenney, 3425 North Second street, Philadelphia. Brick, 1 story, 20x100 feet, slag roof, cement floors. Owner will build.

Residences and Garages (5), Tacony and Wakeling streets, $11,500. Architect, private plans. Owner, John Kazmervezuk, 2358 Orthodox street. Brick, 2 stories, 14x37 feet and 7x10 feet, slag roof, hot water heat, electric lighting, hardwood and cement floors. Owner is building.

Residence (2), Northeast Corner Mt. Airy avenue, East of Anderson street, $5,000. Architect, private plans. Oner, John S. Miller, Glenside, Pa. Brick, 2 stories, 15x4s feet, slag roof, pine floors, hot water heat. Owner will build.

Residences (20), Fifty-fifth and Ridgewood streets, Philadelphia. Architect, private plans. Owner, R. H. Pugh, Ridge avenue and Girard avenue, Philadelphia. Brick, 2 stories, 18x30 feet, slag roof, oak floors, hot water heat, electric light, tile work. Owner will build.

Residences (50), Smedley and Moyamensing avenue, Philadelphia, $114,300. Architect, private plans. Owner, Charles M. Weild, 2737 South Sixteenth street, Philadelphia. Brick, 14 feet 3 inches x 25 feet, 9x6 feet, 16x22 feet, 15x38 feet, 16x38 feet, slag roof, hot water heat. Owner will build.

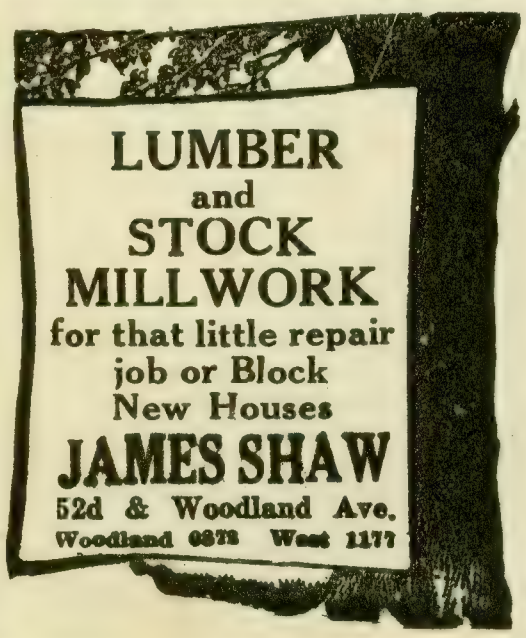
Residences (25), Northwest Corner Fifteenth and Bigler streets, Philadelphia, $75,000. Architect, private plans. Owner, Fred S. Park, Seventeenth and Moyamensing ave-

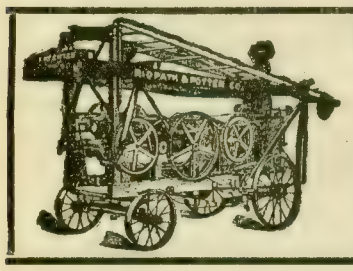
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nue, Philadelphia. Brick, 2 stories, 17 feet 3 inches x 32 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

Residences (25), Akron and Pratt streets, Philadelphia, $125,000. Architect, private plans. Owners, Smith & Schmunk, 800 West Erie avenue, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak floors, hot water heat, electric light, tile work. Owner will build.

Residences (4), Stores (3), C and Louden streets, and C and Mentor streets, Philadelphia, $16,000. Architect, private plans. Owner, William B. Davenport, 1315 Colwyn street, Philadelphia. Brick, 2 stories, (3) 16x38 feet, (1) 16x50 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

Automobile Accessories Office and Warehouse, Sixteenth and Fairmount avenue, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owners, Gaul, Derr & Shearer, 212 North Broad street, Philadelphia. Brick and steel, 2 stories and basement, 107x56 feet, slag roof, cement and plank floors, freight elevator, flush bulks, plate glass, steam heat, electric light. Owners taking bids.

Bungalow, Phil-Ellena and Greene streets, Germantown, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Emannuel Weil, 918 North Broad street, Philadelphia. Plans completed. Architects ready for general bids.

Stores (6) and Garage, Fifty-third and Baltimore avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, H. P. Sharp, on premises. Reinforced concrete, 2 stories, 50x150 feet, slag roof, cement and pine floors, electric lighting. Plans in progress.

Stores (24) and Garage, Broad and Moyamensing avenue. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, H. P. Sharp, Fifty-third and Baltimore avenue, Philadelphia. Steel and concrete, 1 story, 84x275 feet, slag roof, cement, pine and composition floors, terra cotta, flush bulks, plate glass, tile work, electric lighting, oil burning heaters. Owner is ready for sub-bids.

Residences (16), Southeast Corner Rosehill and Ruscomb streets, Philadelphia, $3,600 each. Architect, private plans. Owner, Herman Britsch, 5521 North Seventh street, Philadelphia. Brick, 2 stories, 16 feet 8 inches x 32 feet, slag roof, oak floors, hot water heat, electric light. Owner will build.

Stores (alts.) (3), Southeast Corner Nineteenth and Norris streets. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, Louis Jaffe, Nineteenth and Norris streets. Steel work, lowering floors, cement work, plastering, composition floors, brick work, mineral stucco, carpentry, heating, electric work, metal lath, tile and marble, flush bulks, metal ceilings, plastering, glazing, painting. Owner taking bids.

Store and Residence (alts. and add.), 5408 Baltimore avenue. Architect, private plans. Owner, Richard A. Boyd, on premises. Brick, steel and cut stone, 1 story, 15x26 feet, slag roof, pine and cement floors, metal ceilings, glazing, cement work, masonry, brick work, flush bulks, hollow metal skylights, electric lighting, metal lath, tile and marble work, plumbing and painting. Owner taking bids.

Store (alts.), 1846 Ridge avenue, Philadelphia. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owner, R. C. Adams, 1915 Girard avenue, Philadelphia. Stone and steel work, carpentry, mill work, plastering, pine and hardwood floors, painting, glazing, metal ceilings, flush bulks, heating, electric lighting, metal lath. Owner taking bids.

Store (alts.), 1416 North Twentieth street, Philadelphia. Architect, private plans. Owner, R. Levin, 1427 North Twentieth street, Philadelphia. Interior alterations, demolition, painting, flush bulks, glazing, carpentry, mill work, plastering, new floors. Owner is taking bids.

Residence, location withheld. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, name withheld. Stone, frame and stucco, 2½ stories, 29x42 feet, slate roof, hardwood floors, hot water heat, electric lighting. E. J. Kreitzburg, 1345 Arch street, is only bidder.

Rectory, Fifty-fourth and Wynnefield avenue, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Barbara's Roman Catholic Church, on premises. Brick and stone, 3 stories and basement, 32½x39 feet, slag and slate roof, hardwood floors, aterproofing, ornamental iron work, tile and marble work, metal lath, hot water heat, electric light. Architect taking bids.

School Building, Sixth and Mountain streets, Philadelphia. Architect, Edwin L. Rothschild, 1701 Chestnut street, Philadelphia. Owners, Association Talmud Toraks of Philadelphia, care of architect. Brick, stone and steel, 3 stories and basement, 25x75 feet, slag roof, pine floors, steam heat, electric lighting. Plans in progress.

Garage (add.), 143-45 Fairmount avenue, Philadelphia, $10,000. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Brown & Son, 720 Newmarket street, Philadelphia. Brick, second story add., 50x115 feet, slag roof, cement work, electric freight elevator, hollow metal skylights, rolled steel sash, electric light, steam heat. Owner is sub-letting.

Building for Tubercular Mental Patients, Byberry, Philadelphia. Architect, P. H. Johnson, 1713 Sansom street. Owners, Bureau of Hospitals, Department of Public Health, C. L. Furbush, M. D., Director, 584 City Hall, Philadelphia. Brick, cut stone, hollow tile and stucco, 1½ stories, 148x35 feet, and 2 wings, 90x43 feet, slag and asbestos shingle roof, granolithic and pine floors, roof ventilators, waterproofing, iron work and stairs, steel doors, rolled steel sash and skylights, marble and terrazzo work, metal lath. Owners taking revised bids on general contract only due August 21st.

School Building, Palmetto and Bleigh streets, Philadelphia. Architect, private plans. Owners, Board of Education, care of J. D. Cassell, Superintendent of Buildings, Nineteenth above Chestnut street, Philadelphia. Brick, stone and steel. Plans completed. Owners will be ready for bids August 19th.

Residence (alts. and add.), Logan and Morris streets, Germantown. Architects, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, John M. Graham, Jr., on premises. Hot water heat, electric light, plumbing, metal lath, tile work, slate and slag roof,

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oak floors, new porches and bay windows, painting, plastering. Architect taking bids due August 17th.

Bank, 2836 West Girard avenue, Philadelphia. Architect, Charles Schweiber, 33 North Felton street, Philadelphia. Owners, Jefferson Title & Trust Co., care of architect. Brick, stone, steel and reinforced concrete, 1½ stories, 32x79 feet, slag roof, cement and oak floors, hollow tile, demolition, ash hoist, hollow metal and revolving doors, marble and terrazzo, metal lath, steam heat, electric light, terra etta. Architect taking bids.

Sales and Service Station, 641 North Broad street, Philadelphia. Architect, Harry B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Harry T. Saunders, 31 South Eighteenth street, Philadelphia. Brick, stone and steel, 1 story, 24x80 feet, slag roof, concrete floors, steam heat, electric light, hollow metal skylights. Architect taking bids due August 17th.

Residence and Garage, McCallum street, Chestnut Hill, Philadelphia. Architects, Boyd, Abel & Gugert, Estey Building, Philadelphia. Owner, Louis Wiederhold, 316 Walnut street, Philadelphia. Stone and brick, 2½ stories, 42¾x41 feet, and 21x29 feet, slate roof, cork-tile, cement, oak and pine floors, tile work, ornamental iron work (lighting reserved) (heating and plumbing separate bids). Architects taking bids due August 16th.

Church, Eighth and Luzerne streets, Philadelphia. Architect, Frank R. Watson, 1211 Chestnut street, Philadelphia. Owners, St. Simeon's Lutheran Church, on premises. Stone and brick, 1 story, 70x56 feet, slate roof, pine floors, rolling steel partitions, bond, metal lath, steam heating, electric lighting (furniture, leaded glass and hardware reserved). Architect taking bids due August 18th at noon.

Residence (alts.), 1908 Rittenhouse street, Philadelphia. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, George W. Edwards, on premises. Miscellaneous alterations and repairs to four-story residence, roof repairs, hardwood floors, tile work, painting, mill work, plumbing. Architect taking bids.

Stores (3) and Apartments (alts. and add.), 506-08 Frankford avenue, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owners, Chabrow Brothers, 24 South Front street, Philadelphia. Brick, 3 stories, general alterations to building, 40x60 feet, and 1 story add., 20x40 feet, slag roof, pine floors, hot water heat, electric light, plumbing, metal lath, tile and marble work, interior partitions, plate glass, metal ceilings, plastering, carpentry, mill work, painting. Owners taking bids.

Church and Sunday School, Roxborough, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Roxborough Presbyterian Church, care of Rev. F. G. Bessler, 8232 Ridge avenue, Philadelphia. Stone, 1 story. Preliminary plans in progress.

Apartment House, Northeast Corner Eighteenth and Vine streets, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Brick and limestone, 4 stories, 40x125 feet. Preliminary plans in progress.

Auditorium, Ridge avenue, Manayunk and Wissahickon avenues, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owners, Wissahickon Presbyterian Church, care of Rev. E. C. Hibshman, 130 Rochelle avenue, Wissahickon. Stone, 1 story, 40x72 feet, slate roof, maple and cement floors, steam heat, electric lighting. Architect is taking sub-bids.

Residence, Phil-Ellena and Greene streets, Germantown. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Emmanuel Weil, 918 North Broad street, Philadelphia. Brick, 2½ stories, 34x55 feet, wing 20x20 feet, J. M. asbestos shingle roof, hardwood and pine floors, tile and marble (heating and electric fixtures reserved).

Parochial School, Twenty-fourth and Wallace streets, Philadelphia. Architect, Charles J. Cummiskey, 118 West Sharpnack street, Germantown. Owners, St. Francis Xavier Roman Catholic Church, care of Rev. C. J. O'Keefe, Twenty-fourth and Green streets, Philadelphia. Stone, brick, granite, concrete and steel, 3 stories and basement, 184x100 feet, slag roof, cement and maple floors, hollow tile, slate work, terra cotta, iron stairs, ornamental iron work, metal lockers, kalamein doors, hollow metal sash, metal lath, electric light (heating reserved). Architect taking bids due August 24th at noon.

Residences (20), Fifty-eighth and Osage avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Rose Const. Co., North American Building, Philadelphia. Brick and stone, 2 stories, 30x35 feet. Plans in progress. Too early for details.

Ice Mfg. Plant, Tenth and Windrim avenue, Philadelphia. Architect, Jesse T. Hoekstra, 1713 Sansom street, Philadelphia. Owners, Logan Ice Co., care of C. W. Roberts, Tenth and Windrim avenue. Brick, 1 story, (4) buildings, 96x182 feet, slag roof, cement floors, electric light, refrigerating machinery, mill work, plastering, plumbing, painting. Plans in progress. Will be ready for bids in two weeks.

Garage, Woodland avenue, West of Fifty-seventh street, $25,000. Architect, H. H. Kline, 1422 South Penn Square, Philadelphia. Owner, A. Liebowitz, 4045 Baltimore avenue, Philadelphia. Brick, 1 story, 48x100 feet and 148x100 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

Store and Residence, 740 North Third street, $9,500. Architect, private plans. Owner, I. Bankoff, 642 Jackson street, Philadelphia. Brick, 3 stories, 15x65 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

Residences (2), Bingham and Cottman streets, $9,000. Architect, private plans. Owner, Jacob Gaertner, 7235 Oxford avenue, Philadelphia. Frame and brick, 2 stories, 16x48 feet, hot water heat, electric lighting, hardwood and pine floors. Owner will build.

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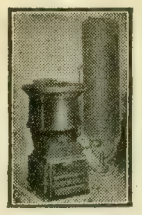
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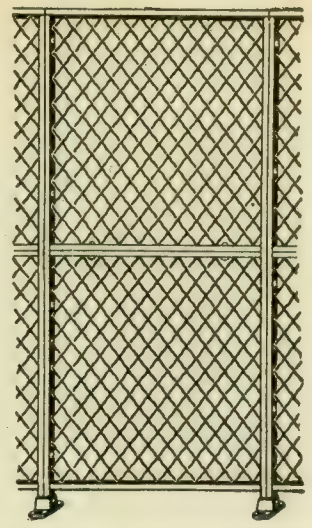
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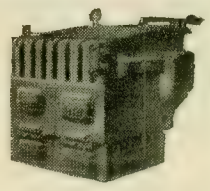
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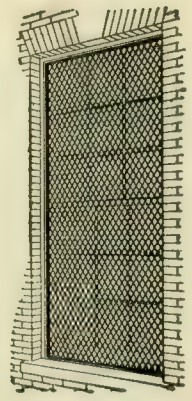
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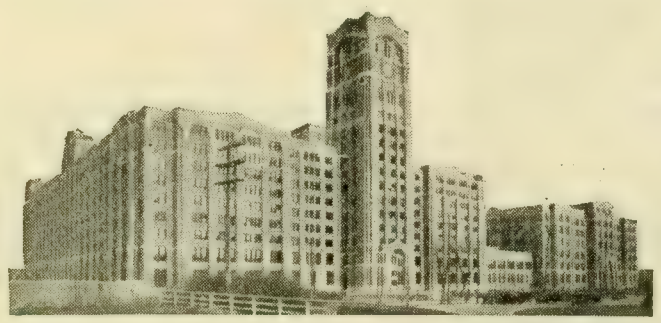
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Auditorium Building, Holmesburg, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Emmanuel Protestant Episcopal Church, Holmesburg, Philadelphia. Stone and steel, 1½ stories, 42x84 feet, slate roof, pine floors (heating, plumbing and electric work reserved), tile work, metal lath. Architects taking revised bids due August 18th at 2 P. M.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Gate House, Second and Luzerne streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, 584 City Hall. Brick, steel and cut stone, 1 story and basement, 31x24 feet, slate roof, cement floors, hollow tile, metal weather strips, waterproofing, iron work, metal lath. Contracts awarded to Lawrence R. Hurley, Bulletin Building, $14,467. Heating, L. J. Sommer & Son, 2436 Brown street, $1,453. Plumbing, N. Connolly, 1404 North Eighteenth street, $1,851. Electric, Charles E. Tull, 117 North Sixteenth street, $647.

Office, Stable and Garage, Twenty-seventh and Bainbridge streets, Philadelphia. Architect, private plans. Owners, Henderson & Brothers, Twenty-fifth and Spruce streets, Philadelphia. Brick, slow burning, 2 stories, 118x40 feet and 115x30 feet, slag roof, cement and composition floors, hot water heat, electric lighting. Contract awarded to J. H. Hinkle Co., Twenty-fifth and Delancey streets.

Parochial School (alts. and add.), Eleventh and Jackson streets, $21,669. Architect, Frank R. Watson, 1211 Walnut street. Owners, Epiphany Roman Catholic Church, on premises. Carpentry, mill work, plastering, repairs to heating, electric work, plumbing. Contract awarded to M. Melody & Son, 1322 Race street, Philadelphia.

Residences (8), East Willow Grove avenue, Philadelphia. Architect, Robert Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, H. H. Houston Estate, care of architect. Brick, 2½ stories, slate roof, oak and pine floors, hot water heat, electric lighting, tile work. Contract awarded to Wolverton Co., 222 East Willow Grove avenue.

Residence and Garage, Roxborough, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Henry F. Miller, care of architect. Hollow tile, stucco and steel, 1½ stories, 85x34 feet, wing 34x23 feet, garage, 16x14 feet, tile and slag roof, oak, pine and cement floors, hollow tile, dampproofing, iron work, metal lath (heating, electric light and plumbing reserved). Contract awarded to William H. Eddleman & Son, 453 Green Lane.

Residence, Roxborough, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Mrs. Henry C. Hays, care of architect. Hollow tile, stucco and steel, 1½ stories, 37x66 feet, tile and slag roof, oak, pine floors, dampproofing, iron work, metal lath (heating, lighting and plumbing reserved). Contract awarded to William H. Eddleman & Son, 455 Green Lane.

Convent (alts. and add.), Belgrade street, **East of Allegheny** avenue. Architect, Emile G. Perrott, 1211 Arch street, Philadelphia. Owners, Roman Catholic Church of the Nativity of the B. V. M., care of Monsignor James P. Turner, on premises. Brick, terra cotta and steel, 3 stories, 32x37 feet, slate roof, pine floors, metal lath, electric light, tile work, hollow metal sash, kalamein doors, bond, ornamental iron work. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street.

Store (alts. and add.), Sixth and South streets, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owners, H. Silverman & Son, on premises. Brick, 1 story, 20x25 feet, slag roof, maple floors, steam heat, electric light, rolled steel sash, metal lath. Contract awarded to Frank I. Wintz, 1618 North Twenty-fourth street.

Store and Office Building (alts. and add.), 15 South Twenty-first street. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, William Moenig, on premises. Brick, brownstone and steel, 4 stories and basement, 21x19 feet, slag roof, hardwood and pine flors (plumbing, heating and lighting reserved), tile and marble work, metal ceilings and bulks. Contract awarded to Turnbull & Cornell, 10 South Eighteenth street.

Building (alts.), 3501 Kensington avenue, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, J. Armstrong, on premises. Brick and cut stone, slag roof, steam heat, electric light, metal lath, marble and terrazzo, bond, metal bulks, metal ceilings, iron work, plastering, painting, glazing. Contract awarded to E. A. Barnes & Co., 3104 Frankford avenue.

Garage and Bachelors' Quarters, 1924 to 28 Delancey street, $12,500. Architect, William Heyl Thompson, 1220 Locust street. Owner, Donald Downs, 1924 Delancey street. Building stuccoed, slag roof, painting, glazing, carpentry, mill work, plastering, structural steel, iron work, bond, tile and marble (heating, lighting and plumbing reserved). Contract awarded to Carr & Courtnay, Twenty-third and Green streets.

Residence, Allen Lane, Philadelphia. Architect, private plans. Owner, A. Sydney Jenkins, Seventh and Washington Square, Philadelphia. Brick and stone, 2½ stories, 73x34 feet, slate and tin roof, quarry tile, oak and pine floors, steam heat, electric light, metal lath, tile and marble work. Contract awarded to E. E. Ludwick, 1619 Chestnut street.

Residence (alts. and add.), 635 Westview avenue, Philadelphia, $15,000. Architect, E. L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Abram L. Asher, on premises. Stone, 1 story, 30x15 feet, slag roof, oak and pine floors, hot water heat, electric light, tile and marble, ornamental iron work. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Church, Tioga and F streets, Philadelphia, $92,000. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, St. Philip's Methodist Episcopal Church, on premises. Stone and steel, 1 story, 103x59 feet, slate roof, maple floors, metal lath and ceilings ,waterproofing, iron work, bond, vapor heating, electric lighting. Contract awarded to Penn Const. & Eng. Co., 3840 Spring Garden.

Office and Sales Building, Northwest Corner Thirtieth and Walnut streets. Architects, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, Westinghouse Electric Co., Widener Building, Philadelphia. Brick, steel, limestone and granite, 10 stories, 191x95 feet, slate and tile roof, concrete floors, safety treads, roof ventilators, waterproofing, floor hardener, bond, rolled steel and kalamein doors, rolled steel sash, tile, marble and terrazzo. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building, Philadelphia. (Note change in contractor.)

Theatre (alts.), Sixtieth and Walnut streets, Philadelphia, $32,000. Architect, private plans. Owners, Imperial Theatre, on premises. General alterations, steel work, tile and marble floors, plastering, electric light, metal lath, tile work, painting, iron and steel, or-

namental iron work. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Residence, Queen Lane, between Fox and McMichael streets, $19,000. Architect, J. L. Conarroe, 225 South Sydenham street, Philadelphia. Owner, Mrs. Ellen L. Dox, care of A. H. Fox, Seventh and ranvo streets. Brick, 2½ stories, 30x39 feet, tile roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Thomas C. Trafford, 1613 Sansom street.

Residence, Locust and Van Pelt streets, Philadelphia. Architect, Samuel D. Hawley, 32 South Seventeenth streets, Philadelphia. Owner, Harrison K. Caner, Fourth and Arch streets, Philadelphia. Brick, 3 stories, 25x60 feet, wing 26x23 feet, slag roof, oak and pine floors, hot water heat, electric lighting, metal lath, tile and marble work, iron work. Contract awarded to Leroy K. Smith, Forty-first and Chester avenue.

Residence, 350 Allen Lane, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, T. W. Vare, on premises. General interior alterations. Contract awarded to Merion Const. Co., 2313 Walnut street.

Bakery, Twentieth and Siegel streets, Philadelphia, $10,000. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owners, Boston Baking Co., on premises. Brick, 1 story, 36x66 feet, slag and Spanish tile pent roof, maple floors, electric light, hollow metal skylights, plate glass, brick ovens, plumbing. Contract awarded to H. Harod, Point Breeze avenue, near Twentieth street.

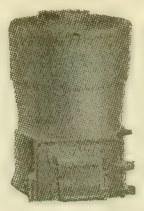
Store (alts.), 1227 Market street, Philadelphia, $10,000. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, Louis Mark, on premises. General alterations, tile work, plastering, painting, carpentry, mill work. Contract awarded to John P. Hallahan, 612 Chestnut street.

Building (alts.), 24-26 South Thirty-third street, Philadelphia, $6,500. Architect, Charles M. Wells, Rutledge, Pa. Owner, William E. Croll, 3303 Chestnut street, Philadelphia. Brick, cement work, carpentry, mill work, painting, glazing, plastering, slag roof, iron work, hot water heat, electric lighting. Contract awarded to Charles C. Pace, Merion, Pa.

Store and Dwellings (alts. and add.), 1534 Columbia avenue, $5,700. Engineers, Mercantile Eng. Service Co., 512 North Fifth street. Owner, B. Rappaport, on premises. Brick work, sheet metal work, carpentry, mill work, painting, glazing, oak floors, marble, rolled steel skylights, bond, metal bulks. Contract awarded to Charles H. Schuster, 1950 North Watts street.

Office (alts.), Fifteenth and Walnut streets, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Alice W. Strawbridge, on premises. Brick, 1 story, 8x18 feet, tin roof, pine floors, hot waetr heat, electric light, hollow metal skylights. Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

Residence (add.) and Garage, 8031 Seminole avenue, 88,000. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Lincoln Furgurson, on premises. Stone, brick and timber, 2 stories, 16x18 feet, garage, 24½x25½ feet, shingle roof, oak and cement floors, hot water heat, electric lighting. Contract awarded to Judson M. Zane, Land Title Building, Philadelphia.



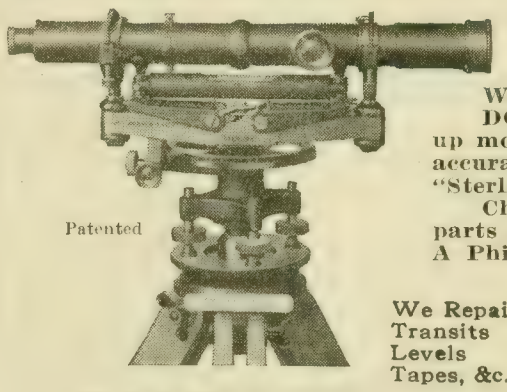
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Building (alts. and add.), 1206 Chestnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Max Dann, 1312 Walnut street, Philadelphia. Brick, artificial stone, concrete and steel, 4 stories, 92x24 feet, slag roof, cement and pine floors (electric work, heating, plumbing and elevators reserved), metal lath, roof ventilators, tile and marble work, sheet metal sash, rolled steel skylights, kalamein doors, bond, metal bulks, waterproofing, dampproofing, ornamental iron work. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Dwelling (alts.), 2017 Pine street, Philadelphia, $6,500. Architect, private plans. Owner, Dr. Morris B. Cooperman, 1811 South Broad street, Philadelphia. Changing into offices, hot water heating, electric lighting. Contract awarded to Humphrey & Knorr, 243 South Fifty-third street, Philadelphia.

Residence, 911 North Marshall street, Philadelphia, $9,000. Architect, private plans. Owner, S. Dralow, 906 North Marshall street, Philadelphia. Brick, 2 stories, 20x85 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded to Jacob Rothman, 1833 North Eighth street, Philadelphia.

Storage Building, Luray, East of Front street, $40,000. Architect, John E. Bullock, 34 South Seventeenth street. Owners, Northeastern Ice Mfg. Co., on premises. Brick and steel, 1 story, 95x65 feet, slag roof, cement floors, electric lighting. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Buildings, Orthodox and Worth streets. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Fischer's Hi Grade Dairies, on premises. Brick and steel, stable, 2 stories, 52x54 feet, dairy, 2 stories, 40x61 feet, power house, 1 story, 31x16 feet, slag roof, cement and pine floors, waterproofing, wire work, iron work, floor hardener, iron work, bond, metal lath. Contract awarded to Harry Gill, Jr., 2514 Germantown avenue.

Garage, 419 North Twenty-seventh street, Philadelphia, $11,500. Architect, private plans. Owner, Godfrey Schmidheiser, Twenty-seventh and York streets, Philadelphia. Brick, 1 story, 13x36 feet, slag roof, cement floors. Contract awarded to L. H. Eckard, 6906 North Broad street.

Residence and Store (add.), 1314-16 South Twenty-first street, Philadelphia. Architect, private plans. Owner, H. Goldberg, on premises. Brick, 1 story, 15x16 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Harry Rubin, 2323 Brown street, Philadelphia.

Store and Residence (alts.), 5030-32 Old York road, $3,000. Architect, private plans. Owner, H. E. Pemepriades, 112 N2orth Sixtieth street. Brick, 2 stories, 20x30 feet and 20x16 feet, slag roof, pine floors, hot water heat, electric lighting. Contract awarded to Co-operative Builders, 112 North Sixtieth street.

Storage Building (alts. and add.), 110 South Second street, $10,900. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, H. Fliegelman, on premises. Brick, 4 stories, 20x12 feet, 4x48 feet, slag roof, pine floors, metal lath, metal ceilings, iron and marble work, bond, rolled steel sash, hollow metal skylights. Contract awarded to Jacob Gotzik, 1202 North Third street, Philadelphia.

Store and Office Building (add.), 20 South Fifty-second street, Philadelphia, $5,500. Architect, private plans. Owner, Thomas K. Lenz, on premises. Brick, 1 story and 3 stories, 15x12 feet, 3x16 feet, 15x58 feet, slag roof, hot water heat. Contract awarded to W. A. Evitts, Forty-fourth and Lancaster avenue, Philadelphia.

Tenement (add.), 1523 Green street, Philadelphia, $2,837. Architect, private plans. Owners, M. L. & M. De Vaulinger, on premises. Brick, 3 stories, 14½x18 feet, slag roof, hot water heating. Contract awarded to A. W. Strade & Son, 12 North Nineteenth street.

Wagon Shed, 1339 North Fifth street, Philadelphia, $4,775. Architect, private plans. Owner, W. J. Mitten, on premises. Brick, 1 story, 40x110 feet, slag roof. Contract awarded to Edward C. Sherry, 1512 North Second street, Philadelphia.

Brewery (add.), Southwest Corner Fairhill and Clearfield streets, $15,000. Architect, private plans. Owners, Philadelphia Brewing Co., on premises. Brick, 1 story, 55x66 feet, slag roof, cement floors, electric light. Contract awarded to John A. Engle, Eighth and Allegheny avenue.

Fire Repairs, Northwest Corner Glenwood avenue and Dauphin street, $10,000. Architect, private plans. Owners, George Nass & Son, premises. Contract awarded to Stewart Brothers Co., 2526 North Orkney street.

Store and Dwelling, 1018 Shackamaxon street, Philadelphia, $7,000. Architect, private plans. Owner, Mary A. Thomas, 207 Richmond street, Philadelphia. Brick, 1 story, 9x65 feet, 77x29 feet, slag roof, pine floors, electric light. Contract awarded to Albert Dell, 1532 East Berks street, Philadelphia.

Residences (6), Mt. Airy avenue, East of McCallum street, $10,000. Architect, private plans. Owners, Misses Meclasky and Barba, Otis Building, Philadelphia. Stone, 3 stories, 23x15 feet, 31x15 feet, hot water heat. Contract awarded to Carson Brothers, 5601 Germantown avenue.

Store and Residence, 1019 Poplar street, Philadelphia, $7,000. Architect, private plans. Owner, J. Silver, 1018 Poplar street, Philadelphia. Brick, 3 stories, 17x57 feet, slag roof, hot water heat, electric light. Contract awarded to B. Israel, 947 North Sixth street, Philadelphia.

Shop, 3726 Walnut street, Philadelphia, $3,000. Architect, private plans. Owner, Thomas J. Luttrell, 3726 Walnut street, Philadelphia. Brick, 1 story, 38x32 feeet, slag roof. Contract awarded to James J. Murphy & Son, 3649 Market street.

Business Building, 4819 Frankford avenue, Philadelphia, $5,000. Architect, private plans. Owners, Frankford Motor Co., on premises. New brick front, 2 stories. Contract awarded to George H. Thirsk, 4305 Horrocks street.

Residence, 7003 Ridge avenue, Philadelphia, $16,000. Architect, private plans. Owner, Howard Goodman, 901 Filbert street, Philadelphia. Brick, hollow tile, 2 stories, 33x33 feet, 13x20 feet, asbestos shingle roof, oak floors, hot water heat, electric light. Contract awarded to E. J. Kreitzburg, 1345 Arch street.

GaGrage (fire repairs), 1821 Market street, Philadelphia, $8,000. Architect, private plans. Owners, Albert Greenfield & Co., Fifteenth and Chestnut streets, Philadelphia. Contract awarded to Smith Hardican Co., 1606 Cherry street, Philadelphia.

Sales and Service Station (alts.), 4807-11 North Broad street, $8,000. Architect, private plans. Owner, Morris W. Gibb, 4807 North Broad street, Philadelphia. Composition flooring, steam heat, electric light, metal lath, metal ceilings, flush bulks. Contract awarded to Stewart Brothers, 2526 North Orkney street.

Factory (add.), 1009-11 West Dauphin street, Philadelphia, $16,000. Architect, private plans. Owner, A. C. Krumm, on premises. Brick, fourth and fifth story addition, 32x86 feet, slag roof, steam heat, electric light, rolled steel sash, raise elevators. Contract awarded to Philip Haiback Cont. Co., 1201 North Twenty-sixth street, Philadelphia.

School (add.), Southwest Corner Eighteenth and Buttonwood streets, Philadelphia, $2,200. Architect, private plans. Owners, Temple University, Broad and Berks streets, Philadelphia. Brick, 1 story, 13x60 feet, slag roof, hardwood floors, slag roof, steam heat, electric light. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia.

Residence and Store (3) (alts. and add.), 320-26 South Fifty-second street. Architect, private plans. Owners, Seidle & Numan, Fifty-fifth and Angora Terrace, Philadelphia. Brick, 1 story, 16x12 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Frank R. Shriver, Fifty-first and Catharine streets.

Residences (2), East side Jackson, North of Knorr street, $4,200. Architect, private plans. Owner, John Burgmeister, Tacony street, Frankford, Philadelphia. Brick, 2 stories, 16x39 feet. Contract awarded to David J. Gercke, 6939 Tulip street, Philadelphia.

Garage (alts.), 1831 North Warnock street, Philadelphia, $5,000. Architect, private plans. Owners, Shoemaker Estate, Morris L. Kolbaugh, premises. Contract awarded to Davis & Savini, 6233 Sansom street, Philadelphia.

Residence, 811 South Tenth street, Philadelphia, $3,200. Architect, private plans. Owner, Frank Pasquello, 912 Catharine street, Philadelphia. Brick, 2 stories, 15x22 feet, 11x16 feet, slag roof, hot water heat, pine floors. Contract awarded to Theodore D. Benedetto, 820 South Delhi street.

Store, Northeast Corner Hunting Park and Carlisle street, Philadelphia, $3,500. Architect, private plans. Owner, name withheld. Brick, 2 stories, 18 feet 6 inches x 21 feet 6 inches, slag roof, pine floors, hot air heat, electric light. Contract awarded to G. H. Steinle, 5535 Spruce streeet, Philadelphia.

Pennsylvania Construction News

Club House (add.), Bala, Pa. Architects, Willing, Sims & Talbutt, 1627 Sansom street. Owners, The Rabbit, Bala, Pa. Brick, hollow tile and plaster, 2 stories, 18x22 feet, slag roof, pine floors, electric light. Architects taking bids due August 21st.

Residence, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, G. Miller Knox, Lorraine and Beechwood avenues, Ardmore. Brick and stone, 2½ stories, 40x29 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect an downer taking bids due August 22nd.

School, Stewartstown, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, School Board of Stewartstown, J. L. Anstine, secretary, on premises. Brick, 1 story, 137x60 feet, slag roof, hardwood floors, roof ventilators, dampproofing (heating, electric light and plumbing reserved). Owners taking bids on foundations due August 15th. Bids on super-structure in one week.

Residence, Cynwyd, Pa. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owner, name withheld. Stone and steel, 2½ stories, 45x46 feet, shingle roof, pine floors, tile and marble work, lighting, plumbing, oak floors, plastering, mill work, painting, glazing. Architect is taking sub-bids.

Residence, Elinwood, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, Harry Weinstock, Newberry and Market streets, York, Pa. Brick, 2½ stories, 40x30 feet, slate roof, hardwood floors, vapor heat,

electric light, tile work. Architect ready for bids.

Club House, Brookline, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Brookline Square Club, care of J. Elmer Watts, Brookline, Pa. Stone. Preliminary plans drawn. Too early for details.

Bungalow, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Earl H. Jones, 1403 South Fiftyfirst street, Philadelphia. Frame and stucco, 1½ stories, 32x32 feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile work. Architect will be ready for bids in a few days.

Club House and Auditorium, Lykens, Pa. Architect, Carl P. Berger, 1422 South Penn Square, Philadelphia. Owners, Lykens Lodge, No. 1176, L. O. O. M., Lykens, Pa. Brick and steel, 3 stories and basement, 48x140 feet, slag roof, cement, tile and N. C. pine floors, hollow tile, dumb waiter, roof ventilators, iron work and stairs, fire doors, electric light, tile work, metal lath, steam heat (lighting fixtures, papering and decorating reserved). Architect taking bids due August 29th.

Residence, Merion, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Howard F. Park, 513 Market street, Philadelphia. Stone, 2½ stories, 35x125 feet, slate roof, oak floors, hot water heat, electric light, tile work. Architect taking bids due August 18th at 2 P. M.

Gymnasium, Easton, Pa. Architect, Willis Bosworth, 527 Fifth avenue, New York City. Owners, Lafayette College, Easton, Pa. Hollow tile, 1 story, basement, mezzanine, 106x110 feet, slag and copper roof, concrete and maple floors, hollow tile, waterproofing, iron work, floor hardener, kalamein doors, rolled steel skylights, metal lath, tile work. Architects taking revised bids due August 18th.

Residence, Drexel Hill, Pa. Architect, P. H. Calon, Drexel Hill, Pa. Owner, Harry M. Magirr, Drexel Hill, Pa. Frame and stucco, 2½ stories, 26x29 feet, shingle roof, white pine floors, hot water heat, electric light, tile work. Bids due as soon as possible.

School, Mt. Penn, Reading, Pa. Architect, H. Mauer, 226 Fifth street, Reading, Pa. Owners, Mt. Penn School Board, W. Edgarbates, secretary, Mt. Penn. Brick, 1 and 2 stories, 38x160 feet, Spanish tile, maple floors, hollow tile, roof ventilators, waterproofing and dampproofing (hot air heat, electric light and plumbing reserved). Owners will take bids in ten days.

School and Auditorium, Newmanstown, Pa. Architect, H. Mauer, 226 Fifth street, Reading, Pa. Owners, Mill Creek School District, Lebanon County, Pa., Regis Chauvenet, secretary, Newmanstown ,Pa. Brick, 2 stories, 70x100 feet, slag roof, maple floors, metal lath, rolled steel sash (hot air or steam heat, electric light, plumbing reserved). Owner will take bids.

Store and Apartments, 26 Southeastern street, Glenside, Pa. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Glenside Fruit & Produce Co., on premises. Brick, 3 stories, 18x75 feet, slag and slate roof, oak and pine floors, hot water heat, electric light, plumbing, tile and marble work, metal ceilings, bulks (flush). Owners will be read yfor bids in one week.

Residence (alts. and add.), Rosemont, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, George H. McFadden, Jr., 121 Chestnut street, Philadelphia. Brick, cut stone and steel, 3 stories, 77x60 feet, slate, tile and slag roof, cement and oak floors, metal window guards, ornamental iron work, bond, tile and marble work, warm air heating (electric wiring, fixtures and hardware reserved). Architect taking bids due August 22nd.

Store and Apartment (alts.), 504 North Penn street, Reading, Pa. Architect, C. Young, 226 North Sixth street, Reading, Pa. Owner, E. O. Emerick, on premises. Plate glass, copper work, hardwood floors, roof ventilators, tile, marble work, rolled steel skylights, general interior alterations. Plans in progress.

Shop Building, Muhlenberg Townshsip, Berks County, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, Bauman Iron Works, Muhlenberg Townshsip, Berks County, Pa. Brick and steel, 1 story, 56x126 feet, composition roof, electric light, rolled steel sash. Architects taking bids due August 17th.

Bungalow, Springfield, Pa. Architect, private plans. Owner, Samuel Smith, Springfield, Pa. Stone and stucco, 1½ stories, 27x24 feet, asbestos roof, hardwood floors, hot water heat, electric light, tile work. Owners taking bids due as soon as possible.

Residence, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Farry H. Francis, Ardmore, Pa. Stone and plaster, 2½ stories, 20x30 feet, shingle roof, hardwood floors, hot water heat, electric light. Architect taking bids due as soon as possible.

Bank and Office Building, Chester, Pa. Architect, not yet selected. Owners, Cambridge Trust Co., Chester, Pa. Stone, brick and steel. Work contemplated. (4 stories.)

Store and Auditorium, Bywood road and West Chester pike, Upper Darby, Pa. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owner, Terrence Smith, care of architect. Brick and steel, 2 stories and basement, 60x100 feet. Plans in progress.

Office Building, Centre Square, Lancaster, Pa. Architect, not yet selected. Owners, Conestoga Traction Co., Conestoga Building, Lancaster, Pa. Brick, steel and concrete, 14 stories, steam heat, electric lighting, tile and marble work, elevators. Work contemplated.

Residence, Swarthmore, Pa. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 25x43 feet, wing 10x27 feet, slate roof, oak floors, hot air heat, electric light, tile work. Plans in progress. Architect will be ready for bids in one week.

Residence, Milton, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Cary E. Hecht, Milton, Pa. Frame and stucco, 2½ stories, 40x30 feet, shsingle roof, hardwood floors, hot water heat, electric light, tile work. Owner is taking bids.

Warehouse, Hazleton, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Hazleton Wholesale Grocery Co., on premises. Brick, mill construction, 2 stories, 40x76 feet, slag roof, concrete floors, electric light, rolled steel sash. Architect has received bids.

Church, Greensburg, Pa. Architects, Charles L. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Third Reformed Church, Greensburg, Pa. Brick, 1 story, 80x41 feet, slate roof, tile and marble. Plans in progress.

eRcreation Pavilion, Lansdowne, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Vincent's Home, Lansdowne, Pa. Brick, steel and concrete, 2 stories, 59x135 feet, slate roof, cement, pine and maple floors, electric light, metal lath. Architect has received bids.

Obstetrical Building, Williamsport, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Williamsport Hospital, care of architects. Stone, brick and steel, will contain 50 beds, steam heat, electric light, metal lath, tile and marble work, elevators, concrete floors. Plans in progress. Address all communications to architects for further information.

Pennsylvania Contracts Awarded

Residence, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street. Owner, George M. Webb, 1200 Widener Building, Philadelphia. Frame and clapboard and stucco, 2½ stories, 26x33 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Suburban Const. Co., Wyncote, Pa.

School, West York, Pa. Architects, Hamme & Whitman, City Bank Building, York, Pa. Owners, West York School Board, H. W. Lauer, secretary, West York, Pa. Brick, 2 stories, 4 rooms, slate roof, hardwood floors, steam heat, electric light. Contract awarded to C. A. Boyer & Son, York, Pa.

Residence, College avenue, Haverford, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 44x27 feet, wing 18x13 feet, shingle roof, oak and pine floors, metal lath, tile work, bond, iron work. Contract awarded to H. P. Wolfe Co., Bryn Mawr, Pa.

Print Shop (alts. and add.), 30 North Sixth street, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, Fred Woerner, 32 North Sixth street, Reading, Pa. Brick, 1 story, 31x41 feet, composition roof, factory floors, steam heat, electric light, rolled steel skylights. Contractawarded to H. J. Raudenbush, 1324 Perk avenue, Reading.

Residence (alts. and add.), Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth streeet, Philadelphia. Owner, J. H. Glass, Shamokin, Pa. Brick, 2½ stories, 30x42 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

Residence, Highland Park, Pa. Architect, private plans. Owner, Miss Beatrice Greaves, Highland Park, Pa. Brick, 2½ stories, shingle roof, oak floors, hot water heat, electric light, tile work. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

Residence, Bryn Mawr, Pa. Architect, private plans. Owner, Mrs. Charles De Mange, Bryn Mawr, Pa. Brick and frame, 2½ stories, 32x36 feet, shingle roof, hardwood floors, electric light, hot water heat, tile work. Contract awarded to Merion Const. Co., 2313 Walnut street.

Residence (alts. and add.), Radnor, Pa., $8,000. Architect, Louis H. Rush, 34 South Seventeenth street, Philadelphia. Owner, H. C. Higgins, Radnor, Pa. (Heating, plumbing, oak floors reserved.) Brick, concrete work, steel work, tile and marble, plastering, iron work, painting. Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

Building, Cheyney, Pa. Architects, Morris & Srskine, 1716 Cherry street, Philadelphia. Owners, Home for Destitute Colored Children, care of architects. Brick, stone and steel, 2½ stories, 51x17 feet, wings 34x23 feet and 13x26 feet, slate roof, asphalt and pine floors (plumbing, heating, electric work reserved), metal lath, rolled steel sash, bond, iron work and stairs. Contract awarded to R. C. Ballinger Co., 918 Walnut street, Philadelphia.

Residence, Chelten Hills, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Esther Heacock, care of architects. Frame, 2½ stories, 25x38 feet, shingle roof, pine floors, hot air heat, electric light, tile work. Contract awarded to Harry Murphy, Willow Grove, Pa.

Rectory (demolition and rebuilding), 322 South Fifth street, Reading, Pa. Architects, High & Huber, North Fifth street, Reading, Pa. Owners, St. Peter's Roman Catholic Church, Rev. Kierman, on premises. Brick,

3 stories, 51x83 feet, slag roof, hardwood floors, steam heat, electric light, tile work, marble work. Contract awarded to Charles Schlegel, Mt. Penn, Pa.

Residence, Reading, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owner, Warren Adams, St. Lawrence, Pa. Brick, 2½ stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light. Contract awarded to Charles Schlegel, 2250 Perkiomen avenue, Reading, Pa.

Residence, Washington and Mulberry streets, Reading, Pa. Architect, Earl Hickman, 119 Southt Fifth street, Reading, Pa. Owner, S. R. Smith, 1 South Ninth street, Reading, Pa. Brick, 2½ stories, 14x52 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to A. E. Spengler, 917 Mulberry street, Reading, Pa.

Bank (alts. and add.), Hamburg, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, Hamburg Saving & Trust Co., care of architect. Brick, structural steel, 91 feet 6 inches x 50 feet, composition roof, cement and cork tile floors, steam heat, electric light, hollow tile, bond, tile and marble work, terra cotta, iron work. Contract awarded to Sharp Const. Co., 22 North Fifth street, Reading.

Church, Mountainville, Pa. Architect, Ritcher & Eiler, Sixth and Court streets, Reading, Pa. Owners, Trinity Memorial Lutheran Church, care of architect. Brick, 1 story and basement, 39x90 feet, slag roof, hardwood floors, hollow tile, vapor heat, electric light, structural metal work, dampproofing. Contract awarded to Allen Leibensperger, Fullerton, Pa.

Residence, Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, H. Eckert, Reading Boulevard, Reading, Pa. Brick, 3 stories, 43½x41 feet, shingle roof, oak floors, hot air heat, electric light, tile, marble work. Contract awarded to Daniel Hunter, 820 North Eleventh street, Reading, Pa.

Garage and Service Station, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, I. K. Wetzel, Shamokin, Pa. Brick, hollow tile, concrete and steel, 2 stories, 80x120 feet, built-up asbestos roof, cement and maple floors, steam heat, electric light, (1) freight elevator and dumb waiter, rolled steel sash and skylights. Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

Men's Dormitory Group, State College, Pa. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Pennsylvania State College, State College, Pa. Brick, cut stone and steel, 4 stories, 106x42 feet, slate roof, cement, oak and pine floors, metal ceilings, waterproofing, terra cotta, bond, fire and kalamein doors, metal lath, tile and terrazzo work. Contract awarded to F. B. Boyer Co., Tyrone, Pa.

Residence (alts. and add.), Penllyn, Pa. Architects, Willing, Sims & Talbutt, 1627 Sansom street, Philadelphia. Owner, Charles E. Ingersoll, Penllyn, Pa. Hollow tile and plaster, 2½ stories, 19x37 feet, slag and shingle roof, oak and pine floors, hollow tile, bond, iron work. Contract awarded to Amos W. Walton, Ambler, Pa.

Stores (4), Apartments (8), Eighth and Edgemont streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Lincoln Republic Life Insurance Co., Eighth and Edgemont streets, Chester, Pa. Brick, 3 stories, 42x134 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile and marble work, metal lath, flush bulks. Contract awarded to R. H. Scroggins, Chester, Pa.

Bank, Stores and Office Building, Tyrone, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Farmers' & Merchants' Bank, Tyrone, Pa. Stone, brick and steel, 5 stories, 100x60 feet, slag roof, hardwood floors, pine and cement floors, hollow tile, roof ventilators, metal window guards, bronze, tile and marble work (plumbing, heating, electric work, elevators and vaults separate bids). General contract awarded to H. A. Moore & Co., Inc., Milton, Pa.

New Jersey Construction News

New Hotel Clarion, Kentucky avenue and Beach, Atlantic City, N. J. Architect, Wm. Macy Stanton, 1524 Chestnut street, Philadelphia. Owner, S. K. Boniface, Atlantic City, N. J. Brick, stone and reinforced concrete, 6 sories, 69¾x40 feet 10 inches, shingle, composition and tin roof, cement, tile and oak floors, elevators, hollow tile, terra cotta, ornamental iron work, flush bulks, metal lath, tile work, steam heat (lighting reserved). Architects taking bids, due August 28th.

Theatre, Wildwood, N. J. Architects, Andrew J. Sauer Co., Denckla Building, Philadelphia. Owners, Hunt's Theatres, Inc., 1324 Vine street, Philadelphia. Preliminary plans in progress. Too early for details.

Comfort Station, Trenton, N. J. Architect, R. G. Connolloy, Commonwealth Building, Trenton, N. J. Owners, City of Trenton, Mr. Page, chairman, City Hall, Trenton, N. J. Brick, 1 story, 45x16 feet, tile roof and floors, electric light. Owners taking bids.

Club House, Millville, N. J. Architect, Robt. W. Pollock, 1802 Chestnut street, Philadelphia. Owners, Millville, Women's Club, care of Mrs. Samuel Sheldon, Millville, N. J. Brick, hollow tile and stucco, 2 stories, 30x90 feet, slate roof, pine floors, hot water heat, electric light, tile work. Architect taking bids, due August 27th.

Apartment House, 105 Victoria avenue, Atlantic City, N. J. Architect, Bertram Ireland, GGuarantee Trust Building, Atlantic City, N. J. Owner, H. G. Harrison & Co., Atlantic City, N. J. Architects taking bids, due as soon as possible.

Residence, Atlantic City, N. J. Architect, Howard A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Nathan Schwart, Atlantic City, N. J. Hollow tile and stucco, 2½ stories, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Architect taking bids, due as soon as possible.

Sanitary Sewage System and Disposal Plant, Township of Haddon, Camden County, N. J. Engineers, Remington & Vosbury, Sixth and Market streets, Camden, N. J. Owners, Township Committee of Haddon, County of Camden, Richard Griffith, Township Clerk, Fire Hall, Westmont, N. J. Electrically equipped sewage pumping station and disposal plant and 250 miles of 5″ to 10″ terra cotta pipe sewers. Owners taking bids, due August 22nd at 8 P. M., D. S. Plans may be seen at Fire Hall or engineers' offices. Deposit $10.00, refund $5.00.

Apartment House, Asbury Park, N. J. Architects, Durham Bros., 1609 Sansom street, Philadelphia. Owner, Capt. Wm. H. Johnson, 1507 Sixth avenue, Asbury Park, N. J. Hollow tile and stucco, 3 stories, 80x41 feet, slag and tile roof, hardwood floors, concrete and cement work, iron stairs, ornamental iron work, metal lath, tile work, hot water heating, electric lighting. Owner is taking subbids.

Power Plant, Blackwood, N. J. Architect, private plans. Owners, Board of Chosen Freeholders, County of Camden, Fred W. George, Clerk, Court House, Camden, N. J. Lowest bidders: Item 1, furnishing and installing steel pressure filter, American Water Softener Co., Fourth and Lehigh avenue, Philadelphia, $2,260; Item 2, two boilers, Naschold & Riddell, Stephen Girard Building, Philadelphia, $9,847; Item 3, building and construction of power house, Fred Lango, Audubon, N. J., $17,251; Item 4, furnishing and installing piping, Marshall & Brown, Lafayette Building, Philadelphia, $22,300.

New Jersey Contracts Awarded

School (alts.), Ohio avenue, Atlantic City, N. J. Architect, Bertram Ireland, Atlantic City, N. J. Coal bunker and ash pit. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

School (alts.), Indiana avenue, tlantic City, N. J. Architect, Bertram Ireland, Atlantic City, N. J. Owners, Board of Education, Atlantic City, N. J. Coal bunker and floor supports. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Residence, Wenonah, N. J. Architects, Morris & Erksine, 1716 Cherry street, Philadelphia. Owner, Oscar D. Ogden, Wenonah, N. J. Frame, 2½ stories, 24x50 feet, asbestos shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to Neilson & Carlson, Wenonah, N. J.

Miscellaneous Construction News

High School, Smyrna, Del. Architect, private plans. Owners, Board of Education, Smyrna Special School District and Delaware School Auxiliary Association, DuPont Building, Wilmington, Del. Brick, steel and concrete, 1 and 2 stories, 150x80 feet, masonry, carpentry, steel and iron, roofing, painting (plumbing, gas fitting, heating and ventilating and electric ork separate bids). Owners taking bids, due September 5th at 11 A. M., D. S. Deposit $25.00, refund $25.00. Plans may be obtained from Room 8124 Du PPont Building, Wilmington, Del. Address owners, as above listed, care of W. O. Hoffecker, President of Symrna Board, or Dr. Joseph H. Odell, PPresident of Delaware Auxiliary.

Junior High School, Roanoke, Va., $200,000. Architect, H. Couroy Richards, 618 Chestnut street, Philadelphia. Owners, Board of Education, Roanoke, Va. Brick, stone and reinforced concrete, 2 stories and basement, slate roof, steam heat, electric lighting. Plans in progress. Architect will be ready for bids in six weeks.

Bank, Middleton, Md. Architect, Edw. Leber, Hay Building, York, Pa. Owners, Valley Savings Bank, Middleton, Md. Brick, granite or marble front, 1 story, 40x75 feet, tile roof, hardwood floors, hollow tile, electric light, tile, marble and ornamental iron work, water and dampproofing, bank fixtuhes. Contract awarded to L. C. Culler, Frederick, Md.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 8, 1922. Sealed Proposals will be opened in this office at 3 P. M., September 5, 1922, for the construction, including mechanical equipment, of a Garage Building for the U. S. Public Health Service Hospital, The Bronx, New York City, N. Y., in strict accordance with the specification and drawings listed in same, which may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy

completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 520)

capacity side by side with the men who had come in from out of town.

On July 20, the national officers of the building trades unions outlawed by the citizens committee met in Chicago, to reestablish if possible closed-shop conditions. The conference is headed by John Donlin, president of the building trades department of the American Federation of Labor.

This conference recommended two days later that the Chicago Building Trades Council be reorganized and the various unions "outlawed" by the citizens' committee sign contracts with the employers under the terms of the Landis award.

Unless the eleven open-shop unions abide by the recommendations they must forfeit their charters from the American Federation of Labor. These unions are the plumbers, sheet metal workers, hoisting engineers, cement finishers, composition roofers, slate and tile roofers, fixture hangers, lathers, glaziers, laborers and terrazzo laborers.

The painters' union is not in the list instructed to abide by the Landis award. When former Judge Landis was appointed arbiter in the building trades dispute on wages the contract of the painters hadn't expired and they didn't participate in the original arbitration proceedings.

Boston, Mass., contractors recently returned to closed-shop conditions, after over a year of turmoil, but not on unqualified union terms.—*National Builder.*

Out of the multiplicity of detail printed daily about railroad and coal strikes, certain facts stand in illuminated importance. One which sizes up above all others is that when a basic industry ceases to operate normally and thereby jeopardizes the welfare of the major portion of the nation, the government has to intervene. Less government in business is possible only when there is business. Serious contemplation of the fact that the government has to project itself into settlement of industrial dusputes even to the point of taking over a temporary basis the industry in question cannot but lead to the conclusion that eventual government ownership of certain basic industries is more than a mere possibility.

This conclusion is highly discomforting to business interests and business minds in this broader fertile land where individual initiative is a paramount characterstic. Discomfort does in nowise avert possibilities. Consider these few basic facts in railroad operation.

The Interstate Commerce Commission fixes rates. The Esch-Cummins Law fixes returns. The Railroad Labor Board has very lately been held by the highest court which has reviewed its powers to have the power to enforce its decisions and one of its powers is to adjust wages. Suppose that under these conditions the point should arise when it will be necessary for the government to draft men or by force to compel them to accept the mandates of the Raliroad Labor Board. This condition has not manifested itself to the present moment in the present strike because when the Railroad Labor Board handed down the contended wage cut it was held under the decision of Judge Page to have only advisory power and no enforcing power. Sooner or later the Supreme Court of the United States will be called upon to fix the status of the board.

Then will come the time when its mandates will have to be obeyed. This will mean but a short step toward more complete government control of the railroads, and a step nearer government ownership. Business must not blind itself to the fact that a very considerable vote for government ownership of basic industries can be polled at any time.

Happily there is a remedy, otherwise why scatter such pessimistic thought? The remedy lies in a new awakening of industry to the solving of its own problems.

That the railroad systems of the United States are in the plight they are in is due for the most part if not entirely to past mismanagement. The plight of the coal industry has been definitely pointed out time and time again to uneconomic conditions in the industry resulting in too many mines in operation and too much seasonal employment.

The plight of the whole United States in regard to labor relations is due to faulty management and faulty considerations of conditions in the past and the present time.

If the coal industry can solve its own problems, the government will be mighty glad to keep hands off. The remedy is action on the part of coal management.

Take the problem home to our own industry, and the remedy for most construction ills lies in action for more business methods upon the part of management.

The contractor belongs or has the privilege of belonging to many associations, all of which have as a basic purpose keeping him out of deep water and making for better business relations. Splendid. However, the first step as far as any unit of industry is concerned is in the individual business enterprise.

AN ACCURATE AND INFORMING SYSTEM OF COST ACCOUNTING WHICH WILL SHOW RESULTS IS THE FIRST REQUISITE. How can any contractor know whether or not he is giving his labor a fair wage in proportion to building costs unless he can show a division of his costs? Guessing in the dark is a past method of doing business. It isn't going to be safe to engage in such business under the conditions which the world is facing now. To do so is just as passe and ineffectual as making national tariff schedules from the standpoint of politics instead of by tariff commissions on non-partisanship basis.

LABOR IS GOING TO KEEP ON DEMANDING MORE AND MORE WITH NO THOUGHT OF FAIRNESS OF DEMANDS SO LONG AS INDUSTRY IN GENERAL DOES NOT PUT ITSELF ON SUCH A COST FINDING BASIS AS WILL ENABLE IT TO SHOW LABOR STATISTICIANS AND ECONOMISTS THAT LABOR GETS ALL THAT CAN BE FAIRLY GIVEN TO IT IN THE LIGHT OF KEEPING THE WHEELS OF INDUSTRY TURNING.

The look into the future which shows the vision of open shop is largely illusional. Labor will be better organized fifty years from now than it is now. Of course this is not saying much, because there is so much room for improvement. The wholesome effect of the open shop movement will be the resulting reorganization of unions—let us hope along better business lines than now.

The keynote of the whole industrial situation is that whereas we have guessed in the past, we must learn to use the yardstick. Instead of guessing a big enough profit so much can be lost and still some made, we must learn by cost accounting to know quite accurately just what profit can be made and then make it or lose.—*American Contractors.*

Had a little talk with a man who is going to put up a considerable aggregate of housing in the very near future. Asked him what his reaction to building costs was. He said building costs are still too high. Asked him about wages paid at present time. He said wages were not bothering him but decreased efficiency of the men was.

Decreased efficiency of the man is the thing we must find a remedy for. It is not the money wage per hour which is the real gauge which determines cost price. The determining factor is how much effort per dollar of wages is received.

Do everything possible to get labor out of the notion of loafing on the job and

of actual sabotage. Good advice? Yes. Hard to put in force? Yes. The hard problem is the problem which when solved brings the greatest return in money and in satisfaction. Who can solve the problem? Most likely the individual contractor.

Truth sometimes is lessened in effect by too much explanation, but we can not forbear to add a word or two to the truths set so tersely in the above paragraphs.

We are at the beginning of what may be a long period of fighting against high costs. While pre-war levels will never be reached, stlll there will probably be recessions along many lines, and there will be wage cuts from time to time. When a wage cut is made the effect of cost of production is largely lost, if the cut leads to much sullenness on the part of workers affected. Education to wage cuts is as important as is the cut itself. The "show me" spirit is typically American.—*American Contractor.*

COAL STRIKE SLOWS "PROSPERITY SPECIAL"

Will the shortage of coal, due to the protracted mine strike, prevent the increase in business activity which is scheduled for the Fall? This question is now absorbing the attention of industrial leaders and observers, according to *The Industrial Digest,* which bases its opinion on an examination of 1,000 trade and technical magazines and newspapers, covering every important industry.

"The economists and statisticians, whose profession is to find answers to those ever-present questions, says that manufacturing is increasing, prices are rising, and normal conditions are fast approaching," says the magazine. "Judging by past experience, the experts say that business is on the upswing, and that improvement may be expected to continue.

"This hopeful prospect has been held before business for many months. One overshadowing cloud—the coal strike—threatens to destroy the fairness of the prospect and put to shame the prophets of early prosperity. Since April 1, when the strike began, industry has been eating into its reserve of fuel, so that now the supply is so low that the Government is rationing out the new production of mines. The prospect of a coal shortage in the fall and winter has become serious; and how can prosperity return if the factories cannot get enough fuel to keep a full head of steam in the boilers?

"Every day that the strike continues the danger to the industrial revival grows greater. Even if the bituminous coal mines were reopened at full swing today the situation would be bad. It would be difficult, and perhaps impossible, to supply enough coal to take care of active industry. The mines could produce plenty of coal, but the railroads couldn't carry it. A reliable statistician estimated at the end of June that if the coal strike had stopped immediately, more than 900,000 cars of coal would have to be loaded each month for the rest of the year if the normal annual production were to be attained. This is very close to the maximum capacity possessed by the railroads under favorable conditions. Since that estimate was made the strike has continued for a month, and the number of coal cars available to the railroads has been reduced by the strike of the shopmen, who keep the cars in repair. Congestion is therefore inevitable, and a serious coal famine quite possible, even if the strike ends immediately.

"This black cloud, however, has not yet affected busines as reflected in the industrial statistics. The figures show that business is buoyant. Will this buoyancy be sufficient to overcome the handicap of the coal strike?

"According to the adjusted index of the volume of manufacture, prepared by the Harvard Economic Service, the upswing of industry so far has resisted all obstacles. According to these statistics and those prepared by other economic services, manufacturing activity is steadily increasing in a manner characteristic of upswings of the business cycle. The trend of commodity prices also has been upward. Until recently most experts predicted that the improvement would continue, but the fear is now expressed that the coal strike has spoiled an otherwise favorable situation and, has seriously delayed the 'prosperity special.'"

—*From the Industrial Digest.*

Payments for extra work should be made monthly on or before the tenth of the month following the month in which the extra work is performed. Extra work invoices should be paid in full, no percentage on same being retained by owner.

ASSOCIATION OF IRON AND STEEL ELECTRICIAL ENGINEERS' SIXTEENTH ANNUAL CONVENTION, SEPTEMBER 11TH to 15TH, 1922, CLEVELAND, OHIO

The engineers in the iron and steel industry will meet in convention during the week of September 11th to 15th, 1922, at Cleveland Public Hall, Cleveland, O., at which time there will be presented and discussed subjects dealing particularly with steel mill problems.

The papers have been written with a view of giving to the engineers as much practical data as is possible, feeling that this class of information is far more beneficial than the theoretical side when dealing with steel mill problems.

Some of those who will present and discuss the subjects are Dr. C. P. Steinmetz, Messrs. B. G. Lamme, W. Sykes, A. G. Witting, F. C. Watson, D. M. Petty, L. W. Heller, R. B. Gerhardt, D. B. Rushmore, J. B. Crane, E. R. Fish, R. M. Rush, R. E. Butler, F. Hodson, Prof. Edgar Kidwell, F. W. Cramer, A. R. Leavitt, E. T. Moore, R. H. Bauer, F. A. Wiley, L. F. Galbraith, R. S. Shoemaker.

A tentative list of the subjects to be presented is:

"Improvement in Efficiency of Electric Power Supply," "A Review of Steel Mill Electrification," "Boiler Practices of 1922," "Education" and "Safety," "The Gas Engine as a Prime Mover for Power Generation," "Steam Turbines," "Judging Combustion from Gas Analysis," "Electrification of the International Nickel Company's Works for Monel Metal," "Some Considerations in the Electrification of the Steel Plant Railroad Yard," "Power in the Iron and Steel Industry," "Control—Motor—Lighting and Crane Standardization," Electric Furnaces," "Electrical Developments in 1922," "Investigation of Insulators for Steel Mill Service."

In addition to the technical sessions, there will be an unusually attractive exhibition of apparatus of particular interest to the steel mill engineers.

This exhibit will cover approximately 30,000 square feet of floor space and will be held in the same hall as is the technical sessions.

Representatives from practically every steel mill in the United States are expected at this convention for it will interest practically every class of engineer, such as General Managers, General Superintendents, Department Superintendents, Chief Engineers, Steam Engineers, Electrical Engineers, Electrical Superintendents, Mechanical Engineers, Master Mechanics, Superintendents of Power, Engineers of Tests, Safety Engineers and Department Foremen.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

AUTOMATIC WATER HEATERS.
C. F. Tinnermann.....5940 Arch St., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

CONTRACTORS' EQUIPMENT
Moore & Weisbrod.....229 N. 12th St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Arvon Co. .....1814 Ludlow St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co. ..Harrison Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.
Western Waterproofing Co.Franklin Tr. Bldg., Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works.
1505 N. Mascher St., Phila.
Potts, Horace T. & Co. .....316 N. 3rd St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR HARDENER.
Thos. F. Gibson..... Franklin Trust Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HAULING CONTRACTORS.
Kane & Co. .....1226 N. 9th St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1026 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Mont Clare Foundry Co.,
N. E. Cor 11th and Ridge Ave., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

INSULATION.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE.
Insurance Co. of North America,
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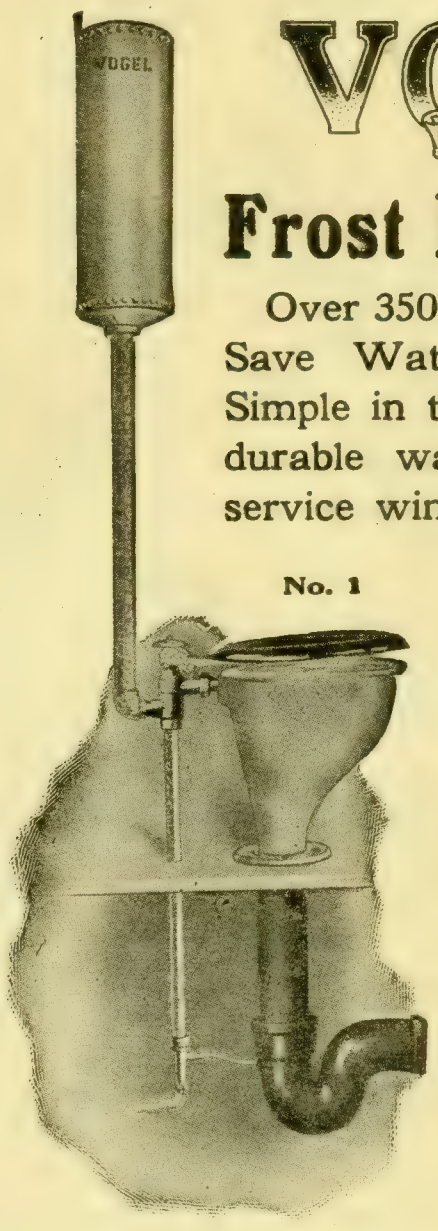
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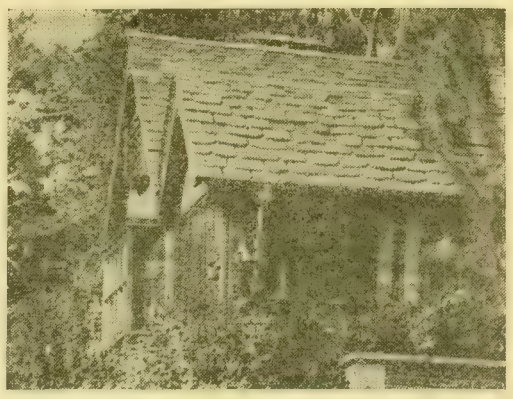
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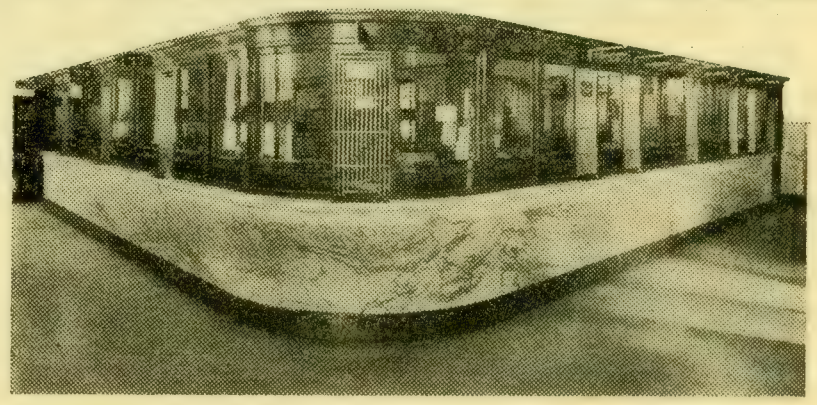
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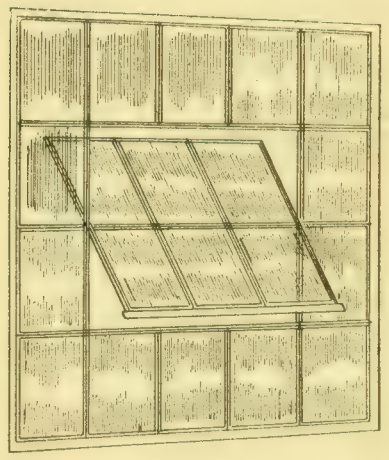
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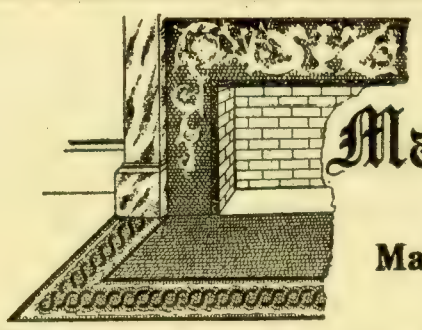
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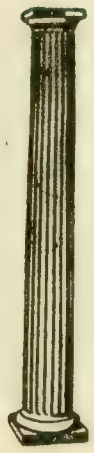
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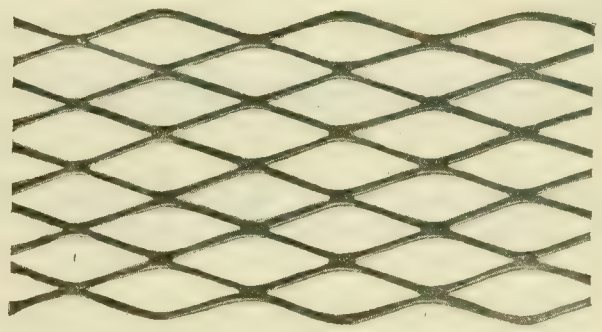
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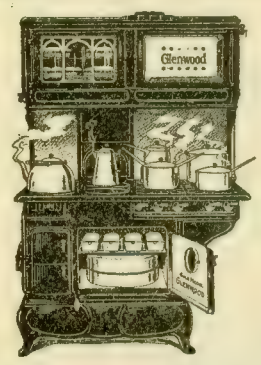
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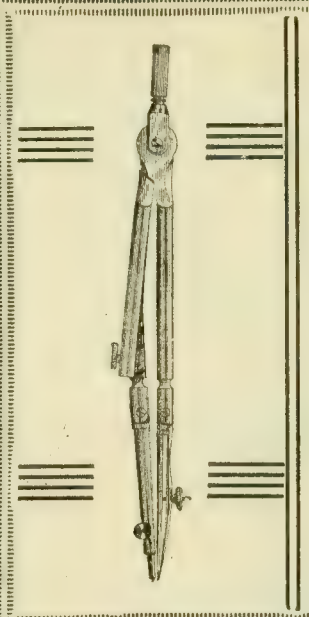


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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 34

PHILADELPHIA
August 23, 1922

BUILDERS' GUIDE

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Sixteenth and Chestnut Sts., Philadelphia, Pa.

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As The Editor Sees It

PROPOSED SAFETY CODE FOR THE STATE OF OHIO

1. The following requirements shall apply to the erection, construction, alteration, repairing, painting, cleaning, wrecking, removing of false work, pointing, moving of buildings or other structures, in so far as any or all of them are applicable.

Definitions

2. The words "shall" and "must" when used in this code are to be understood as mandatory and the word "should" as advisory.

3. *General Contractor.* The term "General Contractor shall refer to a contractor who contracts for a major portion or portions of work.

4. *Contractor.* The term "Contractor" shall refer to a contractor who has a contract from the owner or lessee.

5. *Subcontractor.* The term "Subcontractor" shall refer to a contractor who has a subcontract from a General Contractor or Contractor.

6. *Direct Work.* The term "Direct Work" shall refer to work being done by the owner, lessee, state or any of its political subdivisions.

7. *Employer.* The term "Employer" shall refer to the individual, firm or corportion that the employees are working for.

8. *Agent of the Employer.* The term "Agent of the Employer" shall refer to the Superintendent, when there is one on an operation, or to the Foreman on a job where there is no Superintendent.

9. *Substantial.* The term "Substantial" wherever used in this code shall be taken to mean constructed of such strength, of such material and of such workmanship that the object referred to will withstand all normal or reasonably expected wear, shock, usage and deterioration.

10. *Securely Fastened.* The term "Securely Fastened" wherever used in this code shall be taken to mean that the object or thing referred to shall be so secured in place that it cannot under normal or reasonably foreseen conditions or circumstances be accidently or unintentionally displaced, and that the object or thing referred to will be upheld and withstand such weight or shock as is reasonably expected from normal use, conditions or circumstances.

Factor of Safety. General

11. All staging, i. e., scaffolds, pole and suspended swinging staging, platforms, temporary floors, landings, ladders, runways, horses, trestles, outrigger scaffolds and inclines shall be of such construction as to furnish a factor of safety of not less than five (5) unless otherwise noted.

Toilet Conveniences and Drinking Water

12. Adequate and suitable toilet conveniences and drinking water shall be provided for the workmen on all operations covered by this code. Such toilet conveniences shall be as reasonably sanitary as local conditions will permit.

First Aid Equipment

13. Suitable first aid equipment shall be provided on all operations covered by this code, all such equipment shall reasonably conform to the size of operation and number of workmen employed.

Hammocks and Stretchers

14. Hammocks and stretchers should be provided on all larger operations to properly handle injured workmen.

Discipline

15. Discipline means intelligent co-operation. Employees should have proper regard for the safety of others. Horse plays and practical jokes should not be permitted. It is advisable to discharge careless or quarrelsome persons and the dare-devil.

16. Where there is a hazard in connection with his employment each employee shall use the safety devices furnished by the employer.

Excavating and Ditching
(Other than Railroad, Highway or Channel Cuts)

17. Sheet piling and shoring shall be provided to protect workment where there is danger of falling dirt, walls, etc.

18. Particular attention should be given to shoring and sheet piling. Be guided by subsoil conditions. Don't take chances.

19. Runways for teams, truck and shovels must be built strong enough to carry the load. Hard usage necessitates frequent inspection.

20. Machinery or material should not

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BLUE PRINTS

be piled too closely to the edge of excavations.

Explosives

21. Sufficient warning shall be given before a charge is exploded.

22. Blasting caps or electric fuses must not be transported with high explosives.

23. Danger signs shall be posted whereever explosive substances are stored.

List of Explosives

Acetylene Gas
Natural Gas
Misc. Commercial Gases
Dynamite, etc.
Fuel Oil
Gasoline
Naptha
Benzol
Alcohol
Kerosene
Illuminating Gas

Wrecking

24. Platforms, guard rails and fences must be erected to protect the public and workmen from hazard.

25. Glazed sash shall be removed at start of operations.

26. Enclosed chutes shall be used, but in no case shall inclined chutes have a run of more than two floors without baffles. End of chutes shall be provided with stop or shutter; such stops to be closed when not in use.

27. Danger signs should be posted at the discharge end of all chutes.

28. Section of walls shall not be allowed to fall in mass on unsupported floors of building being wrecked.

29. When chimneys or large sections of a wall are pulled down in masses, the necessary precautions shall be taken to prevent persons from entering the field of danger.

30. Care shall be taken not to overload floors with material.

31. Wreckage, rubbish and material must not be stored upon the floors of the building, but must be removed at the earliest possible moment, unless the floors are properly supported.

32. Walls and chimneys should not be left in such condition that they may be overturned by wind, built-in-beams or other force.

33. Scaffolds used on walls should be self-supporting, especially on fire damaged buildings.

34. Dust shall be kept at a minimum.

Hoists and Derricks

35. Towers shall be constructed of sound material of ample strength to carry the load. Towers shall be properly guyed and anchored.

36. Towers under course of construction should be provided with adequate temporary guy lines.

37. When the hoist engine is placed close to the building, adequate overhead protection shall be provided for the engineer.

38. Exposed gears shall be guarded.

39. Enclosed switches and fuses shall be used.

40 Cables running from engine to hoist shall be enclosed or fenced off where there is danger of workmen coming in contact with cable.

41. All horizontal cables, less than 10 feet from the floor shall be suitably enclosed where there is danger of workmen coming in contact with the cable.

42. Derricks shall be strong enough to carry the load to be lifted.

43. Derricks shall be securely braced to prevent slipping and they shall be placed upon good foundations.

44. Derricks shall be properly and substantially anchored, especially the foot of the masts.

45. Back legs of stiff leg derricks shall be substantially fastened, preferably with double sets of bolts, or the back legs shall be adequately weighted.

45. Only experienced men should be employed in the erection of and taking down of towers.

47. Hoist platforms shall be constructed of sound materials sufficient to carry the load and to withstand the impact.

48. Landing platforms for outside material elevators shall be constructed as wide as or wider than conveyance or car used for material.

49. Workmen shall not be allowed to ride material hoists except when necessary to make repairs.

50. Workmen shall not be allowed to work in elevator shaft or on walls of shaft while elevator is in operation.

51. When elevator constructors or others are working in an elevator shaft, material, tools, or other objects shall not be hoisted or lowered in such shaft.

Elevator or Material Hoistway Openings

52. Where elevators and material hoistways are used in building under construction, temporary gates shall be provided not less than 6 feet high with members not more than two inches apart and six inches toe board. Such gates to be operated by counterweights or otherwise and shall be kept closed when opening is not in use.

53. Openings in elevator shafts where elevators are not in use when not protected by gates shall be boarded up. Temporary elevators must properly covered to protect operator.

54. All sides of elevator and hoistway openings in floors that are not used for loading and unloading shall be enclosed to a height of not less than six feet.

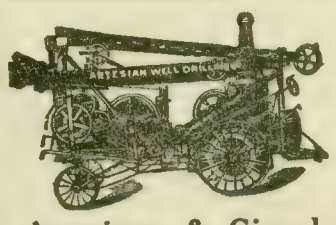
Handling Material

55. Material of all kinds must be piled or stored in an orderly manner and made safe so as not to fall over because of its own weight.

56. Spouting shall be well guyed so it can not be blown about by the wind or

(Continued on Page 546)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office Building, Richmond and Berks streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Remington & Sherman Co., 636 Richmond street, Philadelphia. Brick, 2 stories, 80x25 feet, slag roof, cement and pine floors, dampproofing, terra cotta, fire doors, hollow metal skylights, tile work, metal lath, steam heat, electric lighting. Revised plans in progress.

Church, Mt. Airy avenue and Boyer street, Mt. Airy, Philadelphia. Architects, Henry D. Dagit & Sons Co., 34 South Seventeenth street, Philadelphia. Owners, Holy Cross Roman Catholic Church, care of Rev. John J. Mellon, 134 East Mt. Airy avenue, Philadelphia. Stone, brick and concrete. Plans in progress. Too early for details.

Residences (2), 7424-26 Lawndale avenue, Philadelphia, $4,000. Architect, private plans. Owner, Walter Hak, 3016 North Ninth street, Philadelphia. Brick, 2 stories, 14 feet 4 inches x 53 feet, slag roof, pine floors. Owner will build.

Boiler, Northeast Corner Sixty-fourth and Lebanon avenue, $3,000. Architect, private plans. Owner, Lewis Jones, Inc., on premises. Brick, 1 story, 35x35 feet. Owners will build.

Stores and Apartments (5), Fifty-third and Baltimore avenue, Philadelphia. Architect, Sol Kaplan, 929 Chestnut street, Philadelphia. Owner, Maurice L. Silva, Heed Building, Philadelphia. Brick, 2 stories and basement, 25x100 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble, flush bulks, plate glass. Plans in progress.

Store and Shop Building, Germantown avenue and Oxford street. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, Hahn Brothers, 1635 Germantown avenue, Philadelphia. Brick, 3 stories. Plans in progress. Architect will take bids in ten days.

Church, Lombard and Van Pelt streets, Philadelphia. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owners, Central Baptist Colored Church, on premises. Stone, brick and cut stone, 54x36 feet, slate roof, pine floors, steam heat, electric light, tile work, iron work. Revised plans in progress.

Parish House (alts. and add.), Manheim street, Germantown. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owners, Germantown Calvary Church, care of Rev. A. R. Van Meter, 38 Manheim street, Germantown. Stone, 2 stories, 40x60 feet. Plans in progress.

Auditorium and Sunday School (alts. and add.), Mascher and Colona streets, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street. Owners, Norris Square Methodist Episcopal Church, on premises. Brick and steel, 2 stories, 64x92 feet, slag roof, pine floors, dampproofing, iron work, electric light, metal lath, tile work, rolled steel skylights. Revised plans in progress.

Apartment House, Northeast Corner Forty-seventh and Pine streets, $1,500,000. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Clarence Siegel, Forty-seventh and Larchwood avenue, Philadelphia. Brick, steel, concrete and steel, limestone, alternate castone, 6 stories, 385x160 feet, concrete roof, concrete and oak floors, hollow tile, safety treads, roof ventilators, metal weather strips, (8) elevators, waterproofing and dampproofing, iron stairs and work, hollow metal skylights, tile and marble, metal lath, vapor heat, electric light, boiler house and laundry equipment. Owner taking general bids due September 1st.

Apartments (alts. and add.), 2115 Carpenter street, Philadelphia. Architect, private plans. Owners, T. E. Walker, on premises. Brick, 3 stories, 20x30 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner taking bids due August 30th.

Rooming House, 1128-30 Lombard street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Meyer Wollow, 1142 Lombard street, Philadelphia. General alterations, 3 stories, 18x38 feet each, slag roof, pine floors, tile work. Owner is taking bids.

Store and Apartments and Garage, Fifty-second and Market streets, Philadelphia. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owners, Greater Philadelphia Realty Co., Belmont Theatre, Philadelphia. Brick, terra cotta, granite and rubble stone, 2 stories, 85x39 feet, and 1 story, 21x30 feet, slag roof, pine, cement and oak floors, metal lath, tile and marble, electric light, hot water heating. Architect taking bids due August 24th.

Store (alts.), 1421 Ridge avenue, Philadelphia. Architect, Salvator J. Gritti, 817 North Sixteenth street, Philadelphia. Owner, S. Seltzer, on premises. Demolition, plastering, excavation, underpinning, stairways, carpentry, mill work, plate glass. Owner will build.

Theatre, Stores and Apartments, Front and Huntingdon streets, Philadelphia. Architect, private plans. Owner, Richard Hill, 304 Somerset street, Philadelphia. Brick, 2 stories, 104x58 feet, slag roof, pine floors, hot water heat, electric light, metal lath. Charles S. A. Booth Co., 4355 Frankford avenue, Philadelphia, is taking sub-bids.

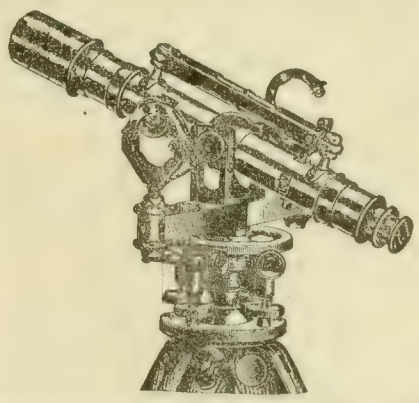
Residences (40), Fillmore and Oakland streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Halloway & Zerbey, 4713 North Broad street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work, cement work. Owners are taking sub-bids.

Residences (5), Stores and Residences (4), Gillmore and Oakland streets, Philadelphia. Architect, Charles F. Parker, 5018 Schuyler street, Philadelphia. Owners, Zerbey & Halloway, 4713 North Broad street, Philadelphia. Brick, 2 stories, 20x35 feet and 20x55 feet, slag and slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Alfred C. Leshler, 3705 Germantown avenue, Philadelphia, taking sub-bids.

Garage, Fifteenth and Wyoming avenue, Philadelphia. Architect, Charles F. Parker, 5018 Schuyler street, Philadelphia. Owners, Zerbey & Halloway, 4713 North Broad street, Philadelphia. Brick, slow burning, 1 story, 100x174 feet, wing 34x20 feet, slag roof, reinforced concrete floor, steam heat, rolled steel sash and hollow metal skylights. Owners taking sub-bids.

Residence (alts.), 7318 Boyer street, Mt. Airy, Philadelphia. Architect, Charles F. Parker, 5018 Schuyler street, Philadelphia. Owner, name withheld. General alterations, composition floors, steam heat, electric light, mill work, plumbing. Architect taking sub-bids.

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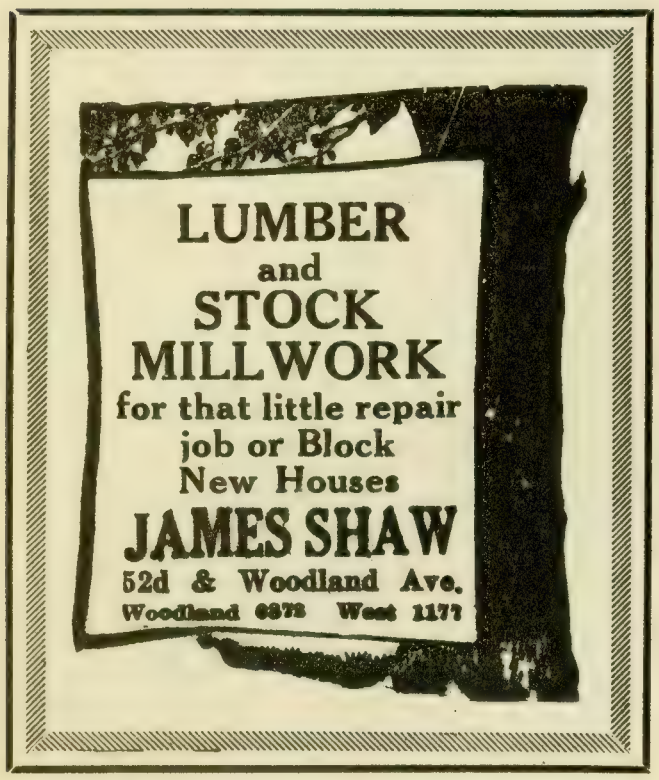
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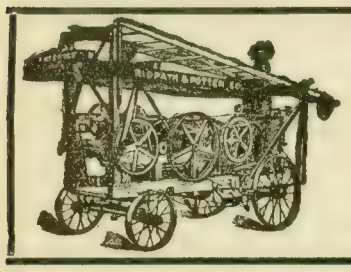
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avenue, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Highways, F. H. Caven, 216 City Hall, Philadelphia. Foundations and buildings to house plant and chimneys, capacity 280 tons per 24 hours. Owners taking bids due September 8th at noon. Inquire Room 232.

Bridge, Fortieth street, over Main Line, P. R. R., Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Highways, F. H. Caven, 216 City Hall, Philadelphia. Removal of old bridge and construction of new bridge, plate girder bridge encased in concrete, 325 feet between abutments. Owners taking bids due August 31st at noon. Inquire Room 416.

Building (alts. and add.), 112 South Twentieth street, Philadelphia. Architect, private plans. Owner, Harold H. Happold, Widener Building, Philadelphia. Brick, cut stone and steel, 3 stories, 10x15 feet, tin roof, mineral and pine floors, steam heat, electric light, marble work, dumb waiters, ornamental iron work. Owner taking bids due as soon as possible.

Remodeling and Improvements of Building "N," Northeast Corner Twelfth and Reed streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Bond, demolition, cement floors, structural steel, brick work, slate and iron work, tin roof, slag roof, carpentry, mill work, metal lath, plastering, glazing, hardware (plumbing separate bid). Lowest bidders: F. A. Havens Co., 845 North Nineteenth street, $46,485; George H. Evans, Inc., 109 North Thirteenth street, $52,626. Plumbing, C. Jacob Brugger, Philadelphia, $55,122.

Bridge, Front street over Richmond Branch of Philadelphia & Reading Railway, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, F. H. Caven, Director, 216 City Hall, Philadelphia. Steel and concrete. Lowest bidders: Brown-King Const. Co., Commercial Trust Building, $83,200; O. B. S. Co., 5517 Wyalusing avenue, $88,100.

Residences (27), Sixty-sixth avenue and Opal street, Philadelphia, $114,000. Architect, private plans. Owner, W. H. Liebrich, 2840 Ridge avenue, Philadelphia. Brick, 2 stories, 18½x32½ feet, slag roof, hot water heating, electric lighting. Owner will build.

Parochial School, Twenty-fourth and Wallace streets, Philadelphia. Architect, Charles J. Cummiskey, 118 West Sharpnack street, Germantown. Owners, St. Francis Xavier's Roman Catholic Church, care of Rev. C. J. O'Keefe, Twenty-fourth and Green streets, Philadelphia. Stone, brick, granite, concrete and steel, 3 stories and basement, 184x100 feet, slag roof, cement and maple floors, hollow tile, slate work, terra cotta, iron stairs, ornamental iron work, metal lockers, kalamein doors, hollow metal sash, metal lath, electric light (heating reserved). Architect taking revised bids due August 24th.

Hall Building, Roxborough, Philadelphia. Architects, Platt & Talley, 1627 Sansom street, Philadelphia. Owners, Roxborough Lodge, No. 66, I. O. O. F., Roxborough, Philadelphia. Brick, cut stone and steel, 3 stories, 88x37 feet and 59x35 feet, slag and slate roof, concrete and pine floors, hollow tile, waterproofing and dampproofing, ornamental iron work, bond, rolled steel skylights and sash, metal lath, tile work. Architects taking revised bids due August 30th.

Residence and Garage, Seminole avenue and Graver's Lane, Philadelphia. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Gilbert Shearer, 416 Walnut street, Philadelphia. Stone, 2½ stories, 75x22 feet, wing 22x23 feet, garage, 1½ stories, 18x20 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Architect taking bids due August 25th.

Building Development, Twenty-second and Chancellor streets, Philadelphia. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owner, David Coons, care of architect. Preliminary sketches being drawn. Too early for details.

Power House, North side of Wyoming street, opposite G street, $22,000. Engineer, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Walter E. Knipe & Sons, Hancock and Berks streets, Philadelphia. Brick, 1 story, 49x119 feet, slag roof, cement floors, steel sash. Engineer will build.

Residences (6), South side Albengrove, West of Horrocks, $5,500. Architect, private plans. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 18x35 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (18), Franklin and Ruscomb streets, $4,000, and **Store and Residence,** $6,000. Architect, private plans. Owner, Thomas J. McGarvey, 709 Penfield Building, Philadelphia. Brick, 2 stories, 15x35 feet, slag roof, hot water heating, electric lighting. Owner will build.

Tanks (2), Lombard street, West of Taney street, $10,300. Architect, private plans. Owners, Sun Company, Finance Building, Philadelphia. Steel. Owners will build.

Residences (4), Manayunk avenue, South of Kingsley, $6,000 each. Architect, private plans. Owners, Manayunk Coal & Lumber Co., Main and Walnut Lane. Brick, 2 stories, 16x41 feet 9 inches, slag roof, hot water heat, electric lighting. Owners will build.

Residences (20), South side Upsal street, East of Musgrave, $4,000 each. Architect, private plans. Owner, Elmer B. Hampton, 4713 Oakland street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hot water heating, electric lighting. Owner will build .

Residences (2), 17 and 19 West Durham street, Philadelphia, $3,700 each. Architect, private plans. Owner, Louis T. Barnier, 43 Nippon street, Philadelphia. Brick, 2 stories, 15x49 feet, slag roof, hot air heating, electric lighting, pine floors. Owner will build.

Residence (2-family) and Store (add.), 5537 Lansdowne avenue, $3,000. Architect, private plans. Owner, Jacob Chandross, 4121 Poplar street, Philadelphia. Brick, 1 story, 15½x15 feet and 10x12 feet, slag roof, electric work, yellow pine floors. Owner will build.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, care of Fred C. Dunlap, Chief, City Hall, Philadelphia. Owners taking bids due August 24th at noon at 216 City Hall.

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Asphalt Paving—Buist avenue, Seventieth to Seventy-first street. Columbia avenue, Fifty-ninth to Sixtieth street. Haines street, Ogontz avenue to Limekiln Pike. Louden street, C street to D street. Pittsville avenue, Limekiln Pike to Ogontz avenue. Twenty-third street, Wolf street to 195 feet South. Turner street, Fifty-fourth street to Columbia avenue. Price street, Ardleigh street to Crittenden street.

Granite Block Paving—Lombard street, Twenty-seventh street to Schuylkill River.

Sheet Asphalt and Granite Block Paving—Torresdale avenue, Frankford avenue to Lewis street. Twenty-second street, Locust street to Fitzwater street.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Manufacturing Building, Northwest Corner Eyre and Memphis streets. Architects (engineers), P. M. Sax and W. W. Hibbert, Penfield Building, Philadelphia. Owners, A. J. Reach Co., Tulip and Palmer streets, Philadelphia. Brick and cut stone, 4 stories, 143x100 feet, Barrett roof, cement floors, metal lath, tile and marble work, rolled steel sash, kalamein doors, floor hardener, waterproofing, ornamental iron work, demolition (heating, plumbing, elevators and electric wiring reserved). Contract awarded to F. W. Mark Cont. Co., Commercial Trust Building, Philadelphia.

Dairy Building, Stable and Wagon Shed, 3325 Old York Road, Philadelphia. Architect, William F. B. Koelle, Twenty-sixth and Oxford streets, Philadelphia. Owners, Breyer-Sharpless Milk Association, Ninth and Cumberland streets. Brick, steel and cut stone, 2 stories and 1 story, 120x70 feet and 92x106 feet, slag roof, maple and concrete floors, metal lath, elevators, roof ventilators, electric work, water tank, tile and marble work, rolled steel sash, fire doors, ornamental iron work, cork insulation. Contract awarded to William F. Koelle, Twenty-sixth and Oxford streets, Philadelphia.

Apartments, Thirteenth and Oak Lane avenue, Philadelphia. Architect, Conrad Neff, 1200 Locust street, Philadelphia. Owner, Mrs. Mary E. La Dow, Oak Lane. Brick, cut stone and steel, 3 stories, 121x40 feet, slag roof, oak and pine floors, dumb waiters, iron work (weather strips, heating and lighting reserved), tile and marble work, plumbing, meta llath. Contract awarded to W. P. Cameron Eng. Co., Witherspoon Building, Philadelphia.

Office Building, Northeast Corner Twentieth and Chestnut streets, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, Miss Elizabeth Hummel, care of architect. Brick, cut stone, steel and limestone, 8 stories, 153x22 feet, Barrett roof, concrete floors, hollow tile, metal lath, tile and marble, hollow metal sash and doors, bond, floor hardener, iron stairs, ornamental iron work, waterproofing, terra cotta. Contract awarded to William R. Dougherty, 1610 Sansom street.

Stores (2) and Apartments (4), 1820 Ridge avenue, Philadelphia, $8,000. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Henry Frankenfield, 2443 North Eighteenth street. Brick and steel, 3 stories, 19x96 feet, slag roof, hardwood floors, electric light, tile and marble work. Contract awarded to Lockhart & Simon, 1524 Chestnut street.

Mill Building, Leverington and Wilde streets, Manayunk, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, Fred Pearson Co., on premises. Steel, concrete and brick, 5 stories, 160x62 feet, cement floors, Carey built-up roof, metal lath, skylights, metal covered doors, bond, ornamental terra cotta and iron work. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Store (alts. and add.), 1311-13-15 Point Breeze avenue, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, A. Curson, on premises. General alterations. Contract awarded to Frank & Kaiser ,1522 South Sixth street, Philadelphia.

Residence (alts. and add.) and Store and Apartments, 4924-26 North Fifth street, Philadelphia. Architect, Sol Kaplan, 929 Chestnut street. Owner, H. G. Pollack, on premises. Brick, 3 stories, 20x75 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, general alterations to present building. Contract awarded to Belinsky Brothers, 2630 South Ninth street.

Boiler House, Frankford avenue and Venango street, $8,600. Architect, H. Berkley Hacket and Eugene Powers, 315 South Fifteenth street. Owners, St. Joan of Arc's Roman Catholic Church, care of Rev. Edward Hawks, 3552 Frankford avenue. Brick, 1 story, 23x16 feet, slag roof, cement floors, dampproofing, bond, iron work. Contract

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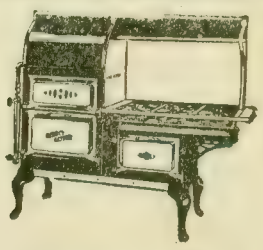
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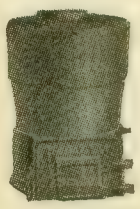
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Store (alts.), 156 North Broad street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Cornfield & Goodman, 156 North Broad street. New front and bulks, hardwood floors, electric light, metal lath, marble work, store fixtures, metal bulks. Contract awarded to Girard Cont. Co., care of architect.

Mill Building, High street, Manayunk, Philadelphia. Architect, private plans. Owners, Atlas Supply Co., Ring and Main streets, Manayunk, Philadelphia. Brick and steel, 1 story, 50x50 feet, slag roof, maple and cement floors, steam heat, electric light, rolled steel sash. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Office Building (alts.), 1623 Spruce street, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, Dr. John Bailey, on premises. Interior partitions, cabinet work and glazing. Contract awarded to William Ferguson, 405 South Twentieth street, Philadelphia.

Residences, Panama street, between Nineteenth and Twentieth streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, care of architect. Complete remodeling. Contract awarded to E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Residence and Garage, Cottman street and Tabor Road, $13,800. Architect, private plans. Owner, John Burnk, 1510 North Fourth street, Philadelphia. Brick, 2 stories, 18x63 feet, slag roof, hot water heat, electric light, tile work, oak and yellow pine floors. Contract awarded to Otto Malz, 2002 North Fourth street, Philadelphia.

Garage, 2011-13-15 South Juniper street, Philadelphia, $10,000. Owner, Joseph Cassidy, 2016 South Thirteenth street, Philadelphia. Brick, 2 stories, 54x100 feet, slag roof, cement floors, steel sash, electric lighting. Contract awarded to Cichiny & Smith, 10 South Eighteenth street, Philadelphia.

Garage and Laundry, Southeast Corner Bodine and Cayuga streets, $10,800. Architect, private plans. Owner, Earl D. Sulzberger, 3227 North Twenty-sixth street, Philadelphia. Brick, 1 story, garage 17x68 feet, laundry 27x68 feet, slag roof, electric lighting, cement work. Contract awarded to Charles D. Land, Marston and Chalmer streets.

Residence, East side Shelmire street, South of Princeton street, $5,000. Architect, private plans. Owner, John F. Flod, 1131 Kerper street, Philadelphia. Brick, 1 story, 26x38 feet, slag roof, hot air heating, electric lighting. Contract awarded to Lewis D. High, 1024 Robbins avenue, Philadelphia.

Residence, Southwest Corner Wells and Charles streets, Philadelphia, $3,500. Architect, private plans. Owner, George C. Shirt, 3153 Emerald street, Philadelphia. Brick, 2 stories, 16x36 feet, hot water heat, electric light. Contract awarded to Herman Gleim, 1937 Briggs street, Philadelphia.

Residence (alts.) and Garage, 172 Queen Lane, $11,000. Architect, private plans. Owner, T. Semar, on premises. General alterations, garage, 1 story, 17x56 feet. Contract awarded to Charles T. Clark, Sedgley and Germantown avenues.

Residence and Store (add.), 129 East Chelten avenue, $3,000. Architect, private plans. Owner, Alfonso Casella, on premises. Brick, second story add., 16x43 feet, slag roof, electric work. Contract awarded to John D. Ambrosio, 233 Collum street, Philadelphia.

Stores and Apartment (alts. and add.), Northwest Corner Sixteenth and Columbia, $12,000. Architect, private plans. Owner, William R. Warreke, 826 Arch street, Philadelphia. Brick, 3 stories, 16x30 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to L. M. Shestack, 826 Arch street, Philadelphia.

Stores (4), West side Sixth street, South of Glenwood avenue, $8,000. Architect ,private plans. Owner, Isabelle Caskey, 2931 West Allegheny avenue, Philadelphia. Brick, 1 story, 14½x30 feet, slag roof, yellow pine floors. Contract awarded to William J. Jones, 2927 North Fifth street, Philadelphia.

Residence and Store (alts.), 3501 Kensington avenue, $6,400. Architect, private plans. Owner, John Armstrong, on premises. Carpentry, mill work, plastering, painting, glazing, electric work. Contract awarded to A. Earl Barnes & Co., 2044 East Clementine street.

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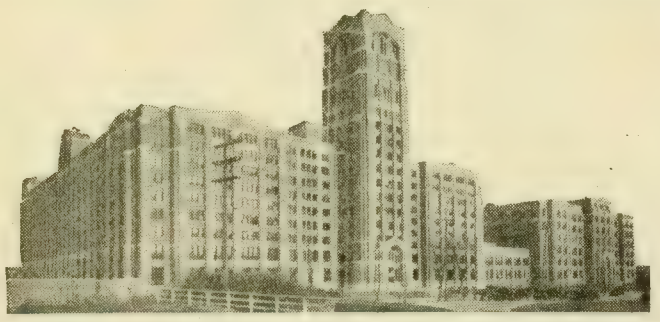
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Store and Rooming House (alts. and add.), 2602 Ridge avenue, $5,500. Architect, private plans. Owner, Owen Kelly, on premises. Brick, 3 stories, 16x28 feet, 12x10 feet, slag roof, pine floors. Contract awarded to Walter J. Russell, 1210 North Twenty-ninth street.

Tenement (alts.), 523 South Forty-eighth street, Philadelphia, $3,500. Architect, private plans. Owner, V. A. Risley, 4932 Osage avenue, Philadelphia. General interior alterations. Contract awarded to David D. Scott, 1115 South Forty-seventh street, Philadelphia.

Residence and Store (add.), 6018 Lansdowne avenue, $3,000. Architect, private plans. Owner, Louis Waldowski, Northeast Corner Fifty-ninth and Rodman streets. Brick, 2 stories, 16x14 feet, slag roof, pine floors. Contract awarded to Louis Swerdloff, 228 South Fifty-ninth street.

Lumber Shed, East side Fifty-eighth street, South of Woodland avenue, $3,000. Architect, private plans. Owners, J. Gibson McIlvaine Co., Fifty-eighth and Woodland avenue. Frame, 1 story, 32x56 feet, shingle roof. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Garage (alts. and add.), North side Cumberland street, East of American street, $3,000. Architect, private plans. Owners, Ross & Wilson, Northeast Corner American and Cumberland streets. Brick, 2 stories, 28x4 feet, slag roof, cement floors, electric light. Contract awarded to William J. Jones, 2927 North Fifth street, Philadelphia.

Store and Residence (alts.), 4946 Wayne avenue, $2,500. Architect, private plans. Owner, B. Sightman, on premises. General interior alterations. Contract awarde dto M. H. Davis, 5422 North Fifth street, Philadelphia.

Store and Storage (add.), Northwest Corner Twenty-fourth and Lehigh avenue, $2,500. Architect, private plans. Owner, Francis A. Coyne, on premises. Brick, 1 story, 16x16 feet, slag roof, pine floors, electric light. Contract awarded to Thomas J. Regan, 2421 West Oakdale street, Philadelphia.

Apartment House (alts.), 3932 Locust street, Philadelphia, $2,500. Architect, private plans. Owner, George W. Seiffert, 3936 Locust street, Philadelphia. General interior alterations. Contract awarded to W. S. Gore, 6 North Forty-first street, Philadelphia.

Store and Residence (add.), Northwest Corner Fifty-fourth and Market streets, $2,200. Architect, private plans. Owner, Hagof Geragosian, on premises. Brick, 2 stories, 10x17 feet, tin roof, yellow pine floors. Contract awarded to Co-operative Builders, 112 North Sixtieth street.

Garage, 187 Evergreen street, Philadelphia, $2,900. Owner, John Fitzpatrick, on premises. Stone, 1 story ,38x43 feet, slate roof, cement floors. Contract awarded to Wolverton & Co., 222 East Willow Grove avenue.

Residence (alts.), 1065 Germantown avenue, $2,500. Owner, Mr. Asbell, Northeast Corner Twenty-fifth and Washington avenue, Philadelphia. General interior alterations. Contract awarded to A. Shestack, 5829 Walnut street, Philadelphia.

Bank Building, 2836 West Girard avenue, Philadelphia, $65,000. Architect, Charles Schweiker, 33 North Felton street, Philadelphia. Owners, Jefferson Title & Trust Co., care of architect. Brick, stone, steel and reinforced concrete, 1½ stories ,32x79 feet, slag roof, cement and oak floors, hollow tile, demolition, ash hoist, hollow metal and revolving doors, marble and terrazzo work, metal lath, steam heat, electric lighting, terra cotta. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street, Philadelphia.

Laboratory, West side Hamilton street, West of Eighteenth street, $8,000. Owners, Temple University, Broad and Berks streets, Philadelphia. Brick and concrete, 1 story, 40x67 feet, slag roof. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Factory (alts. and add.), 1511-21 Unity street, Philadelphia, $7,000. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, La France Textile Mills, 4423 Frankford avenue, Philadelphia. Brick, 2 stories, 9½x35½ feet, slag roof, electric lighting. Contract awarded to John F. Davies, 1021 Herbert street, Philadelphia.

Residence (add.), 2415 North Fifty-second street, Philadelphia, $5,500. Architect, private plans. Owner, George K. Garrett, on premises. Brick, 1 story, 17x20 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Buildings (add.), 2020-22-24 West Passyunk avenue, $3,500. Architect, private plans. Owner, G. H. Lathbury, 2403 South Twenty-first street, Philadelphia. Brick, 2 stories, 44x20 feet, slag roof, yellow pine floors. Contract awarded to C. Moody, 1833 Ritner street, Philadelphia.

Store Building, 1123-25 South Broad street, Philadelphia. Architect, Richard C. Loos, 2218 Chestnut street, Philadelphia. Owner, John P. Schmid, 815 to 821 Passyunk avenue, Philadelphia. Brick and steel, 42x128 feet, slag roof, oak and pine floors, elevator, metal bulks, rolled steel skylights, electric light, hot water heating. Contract awarded to Joseph E. Foster and J. B. Settle, 554 North Sixteenth street, Philadelphia.

Factory (add.), 1533 West Clearfield street, Philadelphia, $2,500. Architect, private plans. Owner, William Macher, 3107 North Sixteenth street, Philadelphia. Brick, 2 stories, 37x29 feet, electric work. Contract awarded to H. J. McIntyre, 3834 North Sixteenth street.

Shop, 902 Fernon street, Philadelphia, $2,000. Architect ,private plans. Owner, Anna Di Sciascia, 928 Tasker street, Philadelphia. Brick, 2 stories, 14x46 feet, slag roof, pine floors. Contract awarded to M. Di Sciascia, 928 Tasker street.

Residence and Store (add. and alts.), 1147 South Fifty-third street, $2,500. Architect, private plans. Owner, Jack J. Lehman, on premises. Brick, 1 story, 15x12 feet, slag roof, yellow pine floors. Contract awarded to N. Lehman, 425 Reed street, Philadelphia.

Store (alts.), 516 South Fifty-second street, Philadelphia, $2,200. Architect, private plans. Owners, Stein Brothers & Rosenberger, 1628 West Susquehanna avenue. General alterations. Contract awarded to Frank R. Shriver, Fifty-first and Catharine streets.

Garage (repairs), 4217-19 Aspen street, Philadelphia, $2,200. Architect, private plans. Owner, Harry S. Kaestner, agent, 4227 Lansdowne avenue. General fire repairs. Contract awarded to Leonard Will, 651 North Frazier street.

Garage, 910 South Fifth street, Philadelphia, $3,500. Architect, private plans. Owner, Morris Rutberg, 708 South Fourth street, Philadelphia. Brick, 1 story, 20x117 feet, cement floors, electric lighting. Contract awarded to Shechtman & Brother, 1734 North Seventh street.

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PENNSYLVANIA
Construction News

School (add. and alts.), Steelton, Pa., $125,000. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, School Board of Steelton, William Neil, secretary, Steelton, Pa. Brick. Architects selected.

Residence (alts. and add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. W. Herdenbaugh, Lancaster, Pa. Frame, 2 stories, 30x40 feet, shingle roof, hardwood floors, hot water heat, electric light, plumbing. Plans in progress.

Hotel (alts. and add.), Philadelphia and George streets, York, Pa. Architects, Toohey & McClymont, 342 Madison avenue, New York. Owners, Hotel Penn, care of Charles Welsh, on premises. Brick, 2 stories, 98x130 feet. Plans in progress.

Club House, Allentown, Pa. Architects, R. & L. Oche, Odd Fellows' Building, Bethlehem, Pa. Owners, Allentown Lodge, No. 130, B. P. O. E., Fred Kiltz, 31 South Eighth street, Allentown, Pa. Brick, stone, 3 stories, slag roof, hardwood floors, electric lighting. Sketches in progress.

Residence, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, William N. S. Carl, Allentown, Pa. Brick, stone, 2 stories, 37x16 feet 9 inches, 33x16 feet 5 inches, hardwood floors, composition roof, electric light, tile work, porches. Plans in progress.

Twin Residence, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, hollow tile, stucco, 2½ stories, 40x120 feet, tile roof, hardwood floors, hollow tile, vapor heat, electric light, tile and marble work. Plans in progress.

Factory, Warehouse and Garage, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, H. S. Haltzel, 12 South Hall street, Allentown, Pa. Fireproof, 2 stories and basement, 80x315 feet, composition roof, concrete and wood floors, electric light, metal lath, freight elevators, rolled steel sash, fire doors, waterproofing, dampproofing. Plans in progress.

Bank, Emaus, Pa. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owner, Security Trust Co., Dr. J. Blackstone, president, Emaus, Pa. Stone, brick, steel, 1 story, 50x80 feet, slag roof, terrazzo floors, vapor heat, electric light, metal lath, tile and marble work, roof ventilators, vault, bank fixtures, terra cotta, ornamental iron work. Plans in progress.

Residence and Garage, Merion, Pa., $30,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, T. H. Edwards, care of architect. Stone, 3 stories, slate roof, hardwood floors, hot water heat, electric light, tile and marble and cement work. Architect will take general bids in a few days.

Residences (2), Berwyn, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, John C. Smith, Berwyn, Pa. Frame and stucco, 2½ stories, 60x30 feet, shingle roof, pine and oak floors, hot water heat, electric light, tile work. Owner will be ready for bids in a few days.

Factory, Eighth and Harris streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, J. J. Taylor, Swissonia Knitting Mills, Allentown, Pa. Fireproof, 3 stories, 66x200 feet, built-up roof, concrete and wood floors, freight elevators (heating, plumbing and electric work reserved), metal lath, rolled steel sash, fire doors, dampproofing, iron stairs. Architect will be ready for bids in one week.

Central Heating Plant, Cumberland County, Pa. Architect, F. H. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Cumberland County Commissioners, Carlisle, Pa. Brick, reinforced concrete, 1 story, 24x30 feet, slate roof, concrete floors, electric light. Architect will take bids next week.

Garage, Allentown, Pa. Arhitect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owners, I. X. L. Tire & Supply Co., North Sixth street, Allentown. Brick, steel, mill work, 3 stories, 62x40 feet, slag roof, concrete and wood floors, steam heat, electric light, roof ventilators, floor hardener. Owner taking sub-bids.

Factory, Allentown, Pa. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owners, Chanock & Senderowitz, 923 Hamilton street, Allentown. Brick, steel frame, 3 stories and basement, 41x130 feet, slag roof, wood floors, vapor heat, electric light, rolled steel sash, fire doors. Architect is taking sub-bids.

Tribute House, Merion, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Merion War Tribute House, Merion, Pa. Stone and steel, 1 story and basement, 88x35 feet, wing 72x40 feet, slate roof, maple and cement floors, safety treads, leaded glass, bond, tile and terrazzo, electric light, hot water heating, demolition. Architects taking bids due August 24th.

Chapel, near Lansdale, Pa. Architect, Paul Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Mary's Institute for the Blind, care of Cardinal D. J. Dougherty, Eighteenth and Race streets, Philadelphia. Brick, cut stone, steel and plaster, 1½ stories, 38x92 feet, slate roof, pine floors, electric lighting, metal lath, tile, marble and terrazzo work, bond, iron work (heating and plumbing reserved). Architect taking bids due August 30th.

Parish House and Rectory, Sixty-ninth Street Boulevard and Chestnut street, Upper Darby, Pa. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, St. Giles' Parish, on premises. Brick, cut stone and steel, 1 and 3 stories, 75x42 feet and 29x56 feet, slate roof, mastic and pine floors, metal lath, bond, waterproofing. Architect taking bids due August 24th at noon.

Residence, North Second street, Harrisburg, Pa. Architect, Robert E. Williams, 26 South Third street, Harrisburg, Pa. Owner, Mr. Morris Yoffe, 310 Cotterel-Ebner Building, Harrisburg, Pa. Stone, 30x47 feet, Spanish tile roof, hardwood floors, hollow tile (plumbing, heating, electric work and fixtures reserved), metal lath, tile and marble work, metal weather strips, bond, terra cotta. Architects taking bids due August 30th.

Sewer, Upper Darby, Pa. Engineer, private plans. Owners, Township of Upper Darby, care of A. F. Damon, Chief of Bureau of Public Works, Post Office Building, Sixty-ninth and Market streets. Construction of outfall sewer ,12,700 feet 8-inch to 18-inch terra cotta pipe. Owners taking bids due September 5th at 8.00 P. M., daylight saving. Address all communications to Samuel Rudolph, secretary of Board of Commissioners, Post Office Building, Sixty-ninth and Market streets, Upper Darby, Pa.

Residence, Lucknow, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Miss Caroline Reefer, Riverside Drive, Harrisburg, Pa. Brick and stucco, 2½ stories, 32x44 feet, shingle roof, hardwood floors, vacuum heat, electric light. Architect ready for bids due August 27th.

Store, Office and Apartment (alts. and add.), Lewistown, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owner, Walter Fosnot, Lewistown, Pa. Brick, 3 stories, 30x60 feet, slag roof, pine floors, vapor heat. Owner taking bids due as soon as possible.

Hotel (add.), Harrisburg, Pa. Architect, W. L. Stoddart, 9 East Fortieth street, New York. Owners, Penn-Harris Hotel Co., Harrisburg, Pa. Reinforced concrete, terra cotta and stone, 12 stories, steam heat, electric light, composition roof, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal skylights, fire, kalamein and hollow metal doors, dampproofing, waterproofing, fire escapes, ornamental iron work, maple, cement and pine floors, metal lath, elevators, roof ventilators. Architect taking bids.

Grade School, Beech, between Warren and Hale streets, Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Directors of the School District of the Borough of Pottstown, Rev. C. H. Kehm, secretary, Pottstown, Pa. Brick, stone and steel, 2 stories (plumbing, gas fitting, heating, electric work and ventilating separate bids). Owners taking bids due September 7th at noon, standard time. Deposit, $10.00. Refund, $6.00.

Greenhouse and Flower Show Room, Langhorne, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, E. K. Schultz, care of E. K. Schultz & Co., Fourth and Walnut streets. Owner will take bids.

Residence, Swarthmore, Pa. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, W. A. Clarke, care of architect. Stone, 2½ stories, 25x43 feet, wing 10x27 feet, slate roof, oak floors, hot air heat, electric light, tile work. Architect is taking sub-bids.

Pennsylvania Contracts Awarded

High School, Ambler, Pa. Architect, S. S. Conover, 11 South Sixteenth street, Philadelphia. Owners, Board of Education, Philip Mass, secretary, Ambler, Pa. Brick and steel, 2 stories, 161x73 feet, slag roof, maple floors, metal lath, roof ventilators, rolled steel skylights, bond, dampproofing, ornamental iron work (heating, lighting, plumbing separate bids). General contract awarded to Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia, $97,900.

School, McConnellsburg, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, School Board of McConnellsburg, Charles B. Stevens, secretary, McConnellsburg, Pa. Brick, 1 and 2 stories, 73x87 feet, slag roof, hardwood floors, roof ventilators, electric light, skylights. Contract awarded to C. H. Stenger, McConnellsburg, Pa. Heating to Chambersburg Const. Co., Chambersburg, Pa. Plumbing to N. R. Roettger, McConnellsburg, Pa. Electric not awarded.

Factory, Lancaster, Pa., $70,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers, Third and Spruce streets, Philadelphia. Brick, 3 stories and basement, 80x176 feet, joist construction, metal roof, pine and maple floors, elevators, roof ventilators, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster, Pa. (Heating, electric lighting, elevators and sprinkler system separate bids, not included in contract.)

Residence (add. and alts.), Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, C. P. Hoffman, Bethlehem, Pa. Frame and stucco, 1 story, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, general interior alterations. Contract awarded to George Heller, 719 North New street, Bethlehem, Pa.

Bank, Mahonoy City, Pa. Architects, Tilghman-Moyer Co., 824 Hamilton street, Allentown. Owners, Mahonoy City Bank & Trust Co., D. T. Graham, Mahonoy City, Pa. Brick, marble, steel, 1 story, 125x25 feet, slag roof, tile and wood floors, hollow tile, metal lath, electric light, tile, marble and terrazzo work, rolled steel sash and skylights, roof ventilators, bronze work. Contract awarded to Tilghman Moyer Co., Allentown, Pa.

Factory, Allentown, Pa. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owners, S. Brown Shoe Co., Allentown, Pa. Reinforced concrete an dbrick, 2 stories and basement, 50x110 feet, slag roof, pine floors, vapor heat, electric light, (1) electric elevator, rolled steel sash, fire doors, sprinkler system. Contract awarded to Ritter & Smith, 1227 Gordon street, Allentown, Pa.

Apartments (add.), 120 South Eighth street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, George J. Kessler, 118 South Eighth street, Reading, Pa. Brick, 3 stories, 20x90 feet, tin roof, pine floors, hot water heating, electric lighting, tile work. Contract awarded to Oscar J. Degler, 1041-A Walnut street, Reading, Pa.

Garage, St. David's, Pa. Architect, private plans. Owner, William Henry Brooks, St. David's, Pa. Stone and frame, 1½ stories, 25x28 feet, shingle roof, cement floor, hot water heat, electric lighting. Contract awarded to Raymond L. J. Rilling, 1425 West Venango street.

Bungalow, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Earl H. Jones, 1403 South Fifty-first street, Philadelphia. Frame and stucco, 1½ stories, 32x32 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to John Morris, Ardmore, Pa.

New Jersey Construction News

Club, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Tenitville Athletic Club, J. Fisher, president, Trenton. Brick, 3 stories, 25x100 feet, slag roof, hardwood floors, electric light, tile and marble work. Plans in progress.

School, Gloucester Heights, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, School District of Gloucester Heights, N. J. Brick, 2 stories and basement, 25x90 feet, slag roof, steam heat, electric lighting. Plans completed. Owners will be ready for bids in a few days.

Church, West State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Christian Science Church, Mrs. Bonham, Trenton, N. J. Brick and frame, 1 story, 40x80 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, ornamental plaster. Architect ready for bids.

Elks' Club, Fowler street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, I. B. P. O. E., Sunlight Lodge, No. 114, F. Kinney, 619 Centre street, Trenton, N. J. Brick, steel, 2 stories, 60x80 feet, slag roof, maple floors, tile and marble work, metal lath, hollow tile, ornamental iron work. Architect taking bids due August 25th.

Office, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owners, Standard Fire Insurance Co., 15 West State street, Trenton. Fireproof, 2 stories and basement, 60x100 feet, slag roof, hardwood floors, electric light, metal lath, rolled steel sash. Architect taking bids due August 29th.

Residence, Merchantville, N. J. Architect, H. M. Moffett, 531 Market street, Camden, N. J. Owner, Robeson Moffett, Camden, N. J. Cement cinder block, frame, 2½ stories, 37x37 feet, shingle roof, pine floors, vapor vacuum heat, electric light, tile work. Plans in progress.

Residence, Merchantville, N. J. Architect, H. M. Moffett, 531 Market street, Camden, N. J. Owner, H. M. Moffett, 531 Market street, Camden, N. J. Cinder cement block, stucco, 2½ stories, 41x36 feet, shingle roof, pine floors, vapor vacuum heat, electric light, tile work. Architect is subletting.

Warehouse, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Brick, steel, 2 stories, 50x90 feet, slag roof, concrete floors, electric light, tin covered fire doors. Low bidder: Emil Schulke, 1183 Jackson street, Camden, N. J.

Residences (9), South Texas avenue, Atlantic City, N. J. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owners, Stanley Const. Co., care of architect. Brick, 2 stories, 16x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Architect taking sub-bids.

New Jersey Contracts Awarded

Bunker Hill School, Cross Keys, N. J., $25,000. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Washington Township School Board, District Clerk, Cross Keys, N. J. Brick, 2 stories, pine floors, electric lighting. Contract awarded to Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia.

Residence, West Collingswood, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, G. H. Praymore, care of architect. Brick, 2½ stories, 36x24 feet, asbestos roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to William T. Layen, Haddonfield, N. J.

Store and Apartment, Vineland, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, M. Zukerman, Vineland, N. J. Brick, 2 stories, 58x38 feet, slag roof, pine floors, steam heat, electric light, plate glass. Contract awarded to Charles Schiebel, Vineland, N. J.

Power House, Blackwood, N. J., $18,039. Architect, private plans. Owners, Board of Chosen Freeholders, Samuel Wood, chairman, Camden County Court House, Camden, N. J. Brick, concrete, bond, 1 story, 30x50x20 feet, slag roof, cement floors. Contract awarded to Frederick Lange, Audubon, N. J.

Miscellaneous Construction News

Basement Building, Baltimore, Md. Architects, Heacock & Hokanson, Bailey Building, and Roy G. Pratt, Baltimore, Md. Owners, North Avenue Presbyterian Church, Baltimore, Md. Basement, stone, 85x84 feet, slag roof, wood floors, electric lighting. Architects taking bids due August 30th.

Proposals

SEALED PROPOSALS

Notice is hereby given that sealed bids will be received by James F. Walton, Chairman of the Court House Committee of the Board of Chosen Feeholders of Camden County, and opened and read in public on Saturday, September 2nd, 1922, at 10 A. M. (daylight saving time) at a public hearing of said Committee to be held in the Freeholders' Room, in the Court House, Camden, N. J., for renovating, plaster patching, painting, etc., of Camden County Court House in accordance with specifications on file in the office of the Clerk, Court House (copies of which may be had by application at the office of Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia, Pa.)

Bids must be enclosed in sealed envelopes, bearing the name and address of bidder, and the words, "Bids on Court House Renovating, Etc.," and addressed to James F. Walton, Chairman Court House Committee.

Each bid must be accompanied by a certified check in a sum not less than ten per cent. of the bids submitted.

A surety bond will be required in the full amount of the contract for the proper completion of the work, and the bidder shall also include in his bid a bid certificate from a surety company.

The Board of Chosen Freeholders reserve the right to reject any and all bids.

Dated, August 19, 1922.

JAMES F. WALTON,
Chairman Court House Committee.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.

You know what propaganda is, don't you? You know, too, how effective a weapon it is, if used properly, don't you? Well, advertising—honest, fair advertising—is the best propaganda we know of. Join the propagandists now! Advertise in the "Builders' Guide."

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

Many a man would do a better job if he didn't know about putty.—**Ex.**

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.

(Continued from Page 536)

become dangerous to those working on other parts of the building.

57. Inclined runways should not be so steep that men will slip. When inclines are steep or wet, cleats should be nailed securely to the runway.

58. Runways to storage piles should have a substantial foundation, be sufficiently wide and the planks shall be securely nailed together.

Scaffolding and Staging

59. The word "stage" in the following paragraphs shall include any structures nailed together for temporary use to support men or materials of construction.

60. Staging shall be erected of sound material, be properly braced and uprights shall rest on substantial foundations or otherwise substantially secured.

61. Platform planks on all staging shall be of sufficient strength to provide a factor of safety of five. Platforms shall not be less than 20 inches wide. Unsupported ends of platform planks shall be railed off or planks shall be fastened to prevent tipping.

62. The use of Hemlock shall be prohibited.

63. Staging above the second floor shall be provided with suitable side screens securely fastened between the hand rail and toe board if there be danger to workmen below.

64. Care shall be exercised in splicing, bracing, spacing of ledgers, put-logs and bearers to maintain a factor of safety of five.

65. Outrigger scaffolds above the third floor shall be at least 30 inches wide.

66. Hooks, anchors and outriggers for swinging scaffolds shall be securely fastened.

67. When needle beams are used they shall be sufficiently strong to carry the load.

68. Outriggers for suspended or patent scaffold shall be sufficiently strong to carry the load and they shall be securely fastened to the frame, preferably by using clamps or U Bolts. Thrustouts should be steel though other suitable material may be used.

69. Stops shall be placed on the outside end of the outriggers.

70. When men are working above the staging and where there is danger of falling material, tools, etc., substantial overhead protection shall be provided to protect the men working on the staging.

71. Safe means of access to staging shall be provided.

72. All staging shall be properly braced or tied to prevent swaying.

73. All staging above the second floor shall be provided with substantially built guard rails and toe boards. This clause not to apply to horse platforms used on staging unless there is danger to men working on staging.

74. Runways over openings of 10 feet or greater in depth shall be provided with substantially built guard rails and toe boards.

75. Horse scaffolds shall be made of sound material and be well braced.

76. The use of ladders should be discouraged. If traffic is to be continued long periods of time, safety and economy will be obtained by the use of temporary stairways.

77. Where ladders are used they shall be substantially built, set level and well secured.

78. Oortable ladders should have non-slipping bases or be otherwise prevented from slipping and twisting.

79. Staging should be constructed by specially selected men who are experienced and competent to do this work. When completed, a thoroughly competent agent of the employer should inspect such staging before it is placed in service.

Barricades

80. On completed floors substantial railings and toe boards shall be erected around floor openings or openings shall be covered with temporary flooring.

Stairways

81. In all structures more than 60 feet in height where it is impractical to construct the permanent stairs as the structure progresses, temporary stairways of substantial construction shall be provided.

82. Temporary stairways shall not be constructed at an agle exceeding seventy-five degrees with the horizontal.

83. Temporary stairways shall be substantially built of sound material and shall be provided with hand rails on all open sides. Landings shall be planked solid.

Temporary Floors

84. All temporary floors shall be of such construction as to carry a live load of 50 pounds per square foot with a factor of safety of two. Planks shall be placed closely together and not extend beyond the supports unless securely fastened to prevent tipping or properly railed off.

85. Buildings of reinforced concrete construction with reinforced concrete floors, shall have the floor filled in with either forms of concrete on each floor before the commencement of work upon the walls of the second floor.

86. If the building is of frame construction and if beams are not spaced more than 2 feet on centers, temporary floor shall not be required.

87. A temporary floor as specified in paragraph 84 shall be laid within three floors of the riveters and within five floors of the erectors in the immediate vicinity of riveters and erectors except stair openings and openings used for hoisting material.

Cables

88. Wire rope or cable shall be of adequate strength to support the load it is intended to carry and single strands shall provide a factor of safety of not less than ten.

89. Guard against chafing where cables run through floors or against steel work or other objects.

90. Cable shall be securely fastened to thrustouts.

Hemp Rope

91. Wherever hemp rope is used it shall be of first grade, long fibre manila hemp.

92. Rope when used for hoisting shall not be used to support loads in excess of 1/10 of ultimate breaking point.

93. Supporting ropes shall be double lashed at each point of suspension.

94. Where supporting ropes are brought over sharp corners of steel, stone or other material liable to cut the rope or in any other way subject to abrasion, they shall be protected at such points by the use of bagging, wooden blocks or other protective padding.

95. Rope knots shall have their loose and free ends lashed to the standing part of body of rope in order to prevent their becoming untied.

96. Rope badly frayed, rotted, or having been damaged by the action of acid or caustic or otherwise defective and unsafe shall not be used.

97. Spreaders shall be used when there is a danger of sling ends or hitchers slipping together.

98. Slings shall be protected with pads or blocks when wrapped around material with sharp edges.

99. Slings shall not be used in single slipnoose form.

100. Hemp rope shall not be used as slings for handling objects contaminated with acid.

101. Hand ropes (guide ropes) shall not be attached to slings but to hoisting tackle, and only when necessary attached to the object handled.

102. Defective slings should be discarded in order to avoid possibility of their being used by mistake.

Guys

103. Guy wires and ropes shall be of sufficient strength to carry the load imposed upon them and shall be securely fastened in place.

104. If wire rope is used it shall not support loads in excess of one-fifth its ultimate breaking load.

105. If hemp rope is used it shall not support loads in excess of one-fifth its ultimate breaking load.

Blocks

106. Blocks shall be of substantial construction and maintained in good condition while in use.

107. Blocks shall fit the size of ropes they carry and shall not chafe or abrade the ropes running through them.

Chain

108. Chains should be carefully in-

spected at frequent intervals. Watch for small flaws and cracks.

109. Avoid kinks. Chains break when kinks straighten out under a load.

Slings

110. Slings shall be of sufficient strength to support the load they are intended to carry.

111. When slings are made from cable or rope the ends shall be properly spliced to form the loop and loops should be lined with a properly formed metal thimble or otherwise protected.

112. Chain slings are dangerous and should be handled only by men of wide experience.

Electrical Installation

113. Temporary electrical installation need not be enclosed in conduits if adequate protection is otherwise provided to safeguard workmen.

Oxy-Acetylene Cutting Apparatus

114. Oxy-Acetylene flame cutting should be done by experienced men.

115. Tanks containing oxygen under pressure should be handled with care. Tanks should not be dropped nor should they be exposed to the direct rays of sun or high temperature from other sources.

116. Colored glass goggles should be worn by the operator.

117. Only cylinders which comply with Interstate Commerce Commission Shipping Container Specifications shall be used.

Cleaning Up

118. Rubbish and old material should be removed from the building and premises as fast as accumulated.

119. Rubbish and debris are useless material and are a source of hazard. Men often stumble over loose planking, brick, tools, rubbish, etc., and it is advisable to keep stairways and passageways free from obstruction.

120. Protruding nails are a source of accidents. Do not permit boards with protruding nails to lie around the job.

—*Building Industry.*

FALLACIES OF HEATING APPLICATION TO DRY OUT PLASTER

By. Professor Henry Adams, M. Inst. C. E.

It must first be understood that air at any temperature can hold moisture, or vapor of water, in suspension, but the amount so held will depend upon the temperature; the warmer the air, the greater the amount of moisture it can contain, the maximum for any given temperature giving what is called "the saturation point," anything short of this, giving the relative humidity, which can be calculated as a certain "percentage of humidity." All air contains more or less moisture, and, whatever the actual amount a continued fall of temperature of the air will of necessity reach the saturation point, any further rendering the moisture visible, as fog, mist, or dew. The saturation point for any given temperature is therefore also the dew point. It frequently happens that while the general bulk of the air in a room is at a temperature far above its dew point for the continued moisture, if a tumbler of cold water be brought into the room, moisture or dew will be deposited on the outside, because the air in contact with the glass will have its temperature lowered below its dew point. Or, as another example, if the temperature suddenly rises after a spell of cold, damp weather, the varnished wallpaper in a house will be found covered with moisture, from exactly the same cause as brought the moisture on the glass. "Washing day" in an artisan's dwelling may show the same things from the same cause. When the temperature of the condensing surface rises above the dew point for the air in contact with it, the moisture gradually disappears.

Heat alone, without changing the air, cannot drive out or absorb moisture; it can only convert it into vapor, which remains where it was generated until carried away by a current of air. In a drying closet of a laundry, the actual amount of heat is a secondary consideration; the more important matter is, that a current of ordinary dry, clean air, should pass through, and carry with it the maximum amount of moisture—that is, it should pass out in a saturated condition. The heat applied has two duties to perform—first, by raising the temperature of the air, to increase its capacity for holding moisture, and secondly, by reducing the specific gravity of the air, due to its expansion, assist in causing its upward flow through the outlet ventilating flue, while the fresh air comes in below.

Drying Plaster

In drying the walls in a house newly plastered, it is customary to put a fire bucket on a course of bricks or a heap of sand in the middle of the room; the radiant heat from the fire warms the walls of the room so that the air in contact with them can hold a greater amount of moisture. Moist air is lighter than dry air, and rises; therefore, provision must be made for it getting away through the top of the window, while fresh air comes in at the bottom, or under the door.

There is another point to note in connection with the evaporation of moisture. It takes about five and one-half times the quantity of heat to evaporate a given quantity of water than it does to raise the same quantity of water to boiling point, so that the evaporation of water from the wall tends to cool the wall by the abstraction of heat and so reduce the efficiency. The walls may be most quickly heated by keeping the windows closed and the door shut. There will probably be sufficient air to keep the fire burning for an hour or two, and the window must then be opened at the top. Care must be taken in going into a closed room with a fire in the center that the carbon monoxide and carbon dioxide are not too strong for respiration, especially if a coke fire be used, so that if the top sash can be drawn down from the outside, it will be an advantage. These explanations ought to make the whole matter quite clear, the common fallacy being that heat is the only thing necessary to dry moisture out of any material.—*The Contractor.*

GOOD TIMES IMMEDIATELY AHEAD

Business Stimulated By Certainty of Better Conditions Foresighted Men Make Preparation for Coming Revival

Business is better.

The outlook for the summer is excellent.

Good times loom immediately ahead.

Analysis of reports from every part of the country gives a definite basis for the foregoing statements. These reports come, as shown by excerpts on the inside pages, from conservative authorities: *Bradstreet's*, the *Chicago Journal of Commerce*, the *National Bank of Commerce*, New York, *Commerce Monthly, Harvard Economic Service, The Annalist*, the *U. S. Industrial Employment Survey Bulletin*, the *U. S. Department of Commerce Bulletin* and *Moulton's Weekly Analysis.*

Fundamentally, what is back of this satisfactory business condition as seen by the financial publications? It is this: Business men are making money; their profits are increasing. Such is the affirmative statement of the *Harvard Economic Service* weekly letter of June 3. But what is back of these profits? Take a look at the spread of news heads on the second and third pages of this folder: Bumper crops; construction in all lines on the increase; steel mills turning down large orders; car loadings at highest peak; retail sales good, and as a result of all these factors a firm basis for trade revival is shown and the outlook is bright.

Farmers are hopeful and are placing orders for machinery and other supplies. In every big industrial center—New York, Chicago, Minneapolis, San Francisco—buildings of all kinds are being constructed, giving work to thousands who, until recently, had been idle; and this boom in building causes a demand for basic materials such as steel, lumber, cement, sand, etc., thus giving employment to thousands of others who lately have been unemployed. Production in the automobile industry this year has al-

ready passed the million mark, and in other industries there is a similar trend upward. Telephone companies are expanding; oil prices are better; and the insurance business, which is more and more coming to be considered a business barometer, shows a net gain of $128,000,000 for 1922. All in all, business may be said to have "turned the corner" and to be out on a straight road going steadily forward.

To the man who studies the signs of the times this points to one conclusion: Right now is the time to be on the jump—to develop new business, to make new sales and to qualify for and fill new executive, accounting, sales and office positions— now, when the trend of business is on the move upward—not some distance in the future when the work has settled down to a steady grind and the high peak has again been reached.

—*Business Bulletin.*

REMOVAL NOTICE

Gehret Bros. Inc., Structural Steel and Ornamental Iron Work, plant at Bridgeport, Pa., have discontinued their Philadelphia office, 306 Perry Building. Mr. B. M. Christman has been transferred to the plant office. All future inquiries and general correspondence should be forwarded to the plant at Bridgeport, Pa.

Manufacturers of fire-resistive materials and of fire-fighting and retarding apparatus, for the first time, will have the opportunity of taking part in a Fire Prevention Exposition to be held October 2 to 7 at the Twenty-second Regiment Armory, New York City, where will be shown, by exhibit and demonstration, what a vital part in the fight against the great annual fire loss is played by fire-safe materials and apparatus.

The Exposition originated with the Fire Prevention Committee of the National Association of Insurance Agents as part of its program of fire prevention activities. It has been endorsed by the National Fire Protection Association, the National Association of Credit Men, by President Frank G. Reynolds of the International Association of Fire Engineers, the National Board of Fire Underwriters and other associations.

The problem of reducing the terrific strain on business caused by preventable fires, that seem to be increasing each year, is one that has long engaged the attention of these organizations. At the present rate of burning, property worth $1,300,000 is being destroyed each day. This is a financial burden which is borne by business men, for the fire insurance companies, contrary to general belief, do not bear this loss—they simply pay out $1,300,000 each day that has been paid in to them in premiums by the public.

So great has the strain on business become that on June 26, this year, at the request of these organizations, Governor Richie, of Maryland, called a conference of the Governors of New York, New Jersey, Maryland and Virginia. This conference adopted a motion to present the matter of fire waste and conservation to the Chamber of Commerce of the United States and on July 12 a conference of representatives of the four associations named above and of the American Institute of Electrical Engineers, Railway Fire Protective Association, American Institute of Architects, American Society of Mechanical Engineers and of the Boy Scouts of America was held at Washington.

At the Washington Conference the Chamber of Commerce of the United States was asked to undertake the responsibility of educating organized business men to the huge annual tax caused by fires. President Barnes of the Chamber accepted this responsibility and plans are now under way for a national citizen's fire prevention campaign.

The peak of this year's effort will be reached during National Fire Prevention Week, October 2 to 7, and the First Fire Prevention Exposition will be its greatest educational feature. It is purposed to show, by means of the Exposition, the latest ideas in fire-safe construction and also to demonstrate to the public the proper appliances to be used in fighting and preventing fires.

A lecture hall is in the armory building and it is planned to make each day of the Exposition a special day, with lectures and motion pictures in the lecture hall. One day will probably be devoted to municipal authorities and fire department officials, with addresses on municipal fire prevention and protection. Motion pictures illustrating these will be shown. Another day will be given over to the children, who will be shown what they can do toward helping reduce the fire loss. A third day will be for plant managers and executives, who will be shown the hazards of industrial plants and told how these can be eliminated.

HARD FACTS ABOUT CONCRETE

DO YOU KNOW—That no other single factor has so great an effect upon the strength of concrete as has the amount of water used?

Thousands of tests conducted at the Structural Materials Research Laboratory, Lewis Institute, Chicago, prove that a direct relation exists between the quantity of water used in mixing concrete and the strength of the resulting concrete. *These tests mean money to the builder because strength is what he is after.*

A variation of ten per cent. above or below the correct amount of mixing water may reduce the strength of the concrete by thirty per cent. or more. The very wet, sloppy mixtures that are sometimes used in building construction result in a loss in many instances of from fifty to sixty per cent. of the possible strength of the building.

Within the range of plastic mixtures, the strength falls off rapidly with the addition of a small amount of superfluous water; in a one-bag batch the addition of even one pint of water more than is necessary to give a workable mix results in the same loss of strength as if from two or three pounds of cement were left out of the mixture. *Thats money out of the pocket for the builder.*

The exact amount of water required for any particular mixture of aggregates to obtain the greatest strength in the concrete can be determined, only by actual test. Workability of the mixture is important and must not be sacrificed. As a basis for trial with well-graded aggregates up to 1½ inches in size, and a 1:2:4 mix, use 6 to 6½ gallons of water per sack of cement. For a 1:2:3 mix begin with 5¾ to 6 gallons, and for a 1:1½:3 mix, 5½ to 6 gallons. *Remember: Use the least amount of water that will give a workable mixture.—Concrete Builder.*

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

AUTOMATIC WATER HEATERS.
C. F. Tinnermann.....5940 Arch St., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

CONTRACTORS' EQUIPMENT
Moore & Weisbrod.....229 N. 12th St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products.Perry Bldg., Phila.
Arvon Co. .....1814 Ludlow St., Phila.
Concrete Waterproof Paint Co. 829 N. 3rd St., Phila.
Contract Waterproofing Co. ..Harrison Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.
Western Waterproofing Co.Franklin Tr. Bldg., Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
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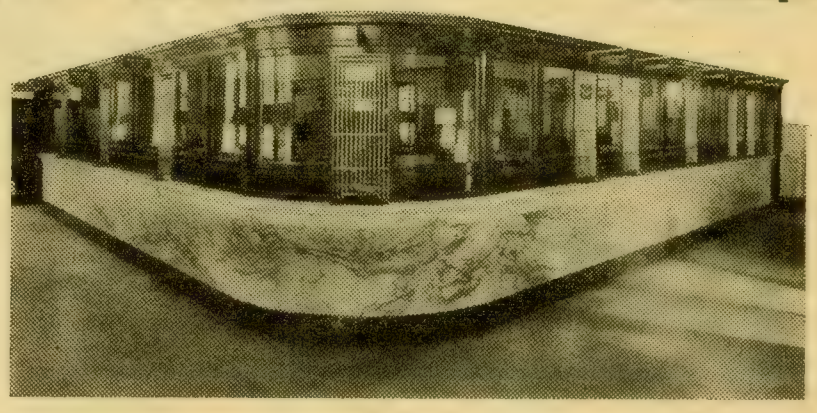
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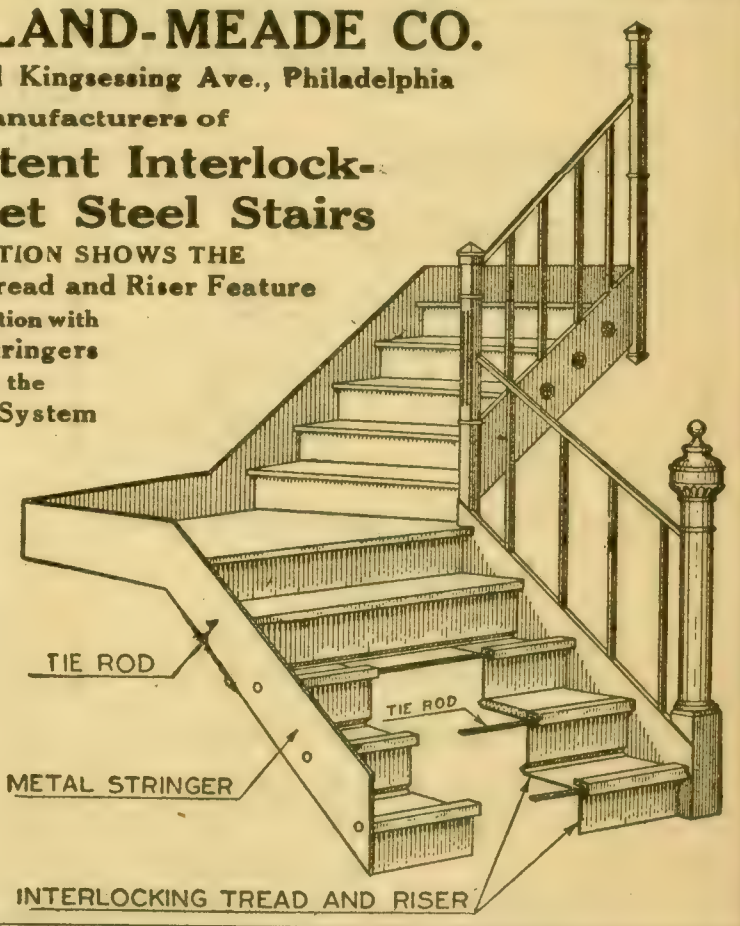
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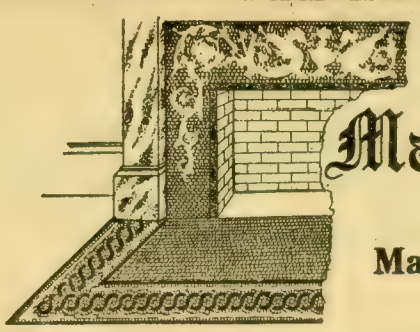


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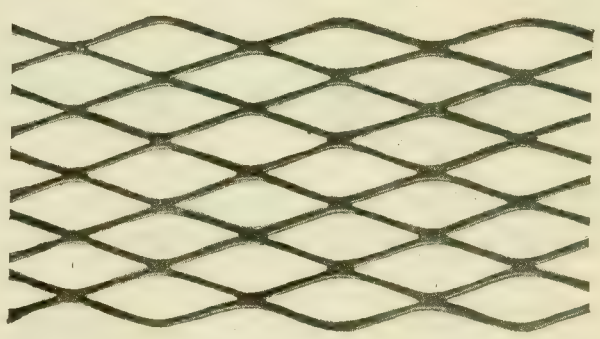
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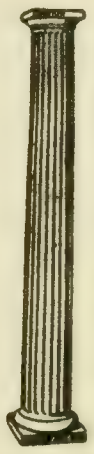
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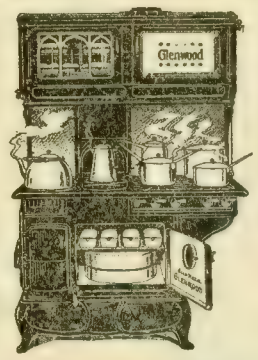
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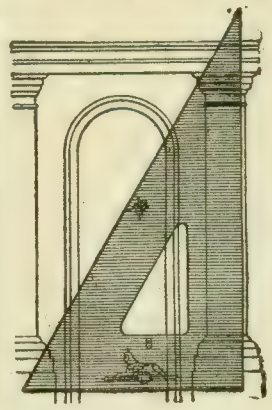
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August 30, 1922

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As The Editor Sees It

MATERIALS, THE FUEL OF CONSTRUCTION

Protest Government Orders Which Mean Shut-down of 80 Per Cent. of All Construction Work East of Mississippi As Soon As Coal Strike is Settled

Orders issued by the Interstate Commerce Commission July 25 and amended on August 4, giving demand for open-top cars for coal for *any* purposes over requests for open-top cars for other purposes will probably mean a shut-down of four-fifths of the construction projects under way east of the Mississippi River as soon as the coal strike is settled unless the order is modified before that time. In this order the Commission establishes five classes of coal which shall have priority in the following order:

1. Coal for special purposes designated by the commissioner or its agent.
2. Coal for transportation, public utilities, Government institutions, domestic use.
3. Coal consigned to Lake Erie ports for trans-shipment to ports on Lake Superior.
4. Coal for manufacture of food-stuffs, and medicines, and containers therefor.
5. Coal for other purposes.

What this means for construction is best expressed in the following petition which has been submitted to the Commission by the Associated General Contractors of America.

Augut 5, 1922.

The Honorable,
The Interstate Commerce Commission,
Washington, D. C.

Gentlemen:

This petition of the Associated General Contractors of America respectfully shows that—

1. Your petitioner is the representative of approximately fifteen hundred of the principal general construction contractors of the United States and is vitally interested in the entire construction industry, both in construction work proper and the manufacture, production and transportation of construction materials.

2. There are at the present time actively engaged in actual construction work, east of the Mississppi River, over 1,300,000 men on projects now in process of contruction of the total value of approximately $1,700,000,000; that there are actively engaged in supplying construction material to carry on these projects approximately 1,500,000 men; so that the uninterrupted continuance of this industry is vital to the lives of 2,-800,000 workers, and of course to their families whom they support. It can be fairly stated that over 11,000,000 people are dependent for their daily support upon the wages of these workers in the entire construction field east of the Mississippi River.

3. The construction program now in progress is largely directed to relieving the acute housing shortage in the United States and through the construction of highways to making more accesible outlying districts which in turn has its effect on both housing and costs of living. Any radical interruption in that industry at this time, therefore, will have a far-reaching effect upon the health and comfort of the whole people.

4. The construction industry, as is well known, is largely seasonal. To interrupt the program which is now at its peak in the construction field at this time, even for a few weeks, would so disarrange the program as practically to throw over into another year many of the vital projects now under way, resulting in enormous losses.

5. The order issued by your Honorable Commission under date of July 25, being known as Service Order No. 23, provides, in effect, that all of the cars suitable for the loading and transportation of coal, which includes practically 90 per cent. of the open top cars of the country, shall be used exclusively if demanded for the transportation of coal for all purposes, not only those of emergent necessity for which priority rating is given by your Commission, in numbers 1, 2, 3 and 4 in said Order, but also of coal for all other purposes.

6. Recognizing that it is the purpose of the Commission to supply fuel to the

DRAWING MATERIALS

CHARLES H. ROBBINS, JR.
1209 Arch Street, Philadelphia
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essential industries of the country with the least possible interruption to the general business of the country, we believe that Service Order No. 23 fails to take cognizance of the far-reaching effect it will have upon the transportation of construction material, nearly all of which is transported in open top cars. Service Order No. 23 will, in effect, withdraw nearly all open top transportation facilities from the construction field as soon as the mines are opened. This will mean the immediate shut-down of an industry which furnishes the livelihood of 11,000,000 people, as has been pointed out. It is respectfully submitted that an order intended to insure fuel delivery to keep industry going, but which is so drastic as to practically stop the operation of the second largest industry in the country, not only defeats its own purpose but only makes matters worse.

7. With the reopening of the mines the demand for cars for coal loading will be not less than 320,444 cars per week, which number can actually be loaded with coal if available.

The maximum number of open top cars of all kinds which the railroads can supply, taking into account the present large number of unserviceable cars, will be 324,000 cars per week, of which only 291,000 will be suitable for the loading and transportation of coal, leaving, under the operation of the Order, only 33,000 open top cars for all other purposes.

That weekly rquirements for such cars for the transportation of other commodities will be:

	Cars.
Construction materials	85,000
Ore	40,000
Limestone	10,000
Coke	10,000
Miscellaneous	10,000
Total	155,000

This leaves available for all purposes other than the transportation of coal only 21 per cent. of the number of cars needed, and these very largely cars unsuited for carrying the commodities for which they will be wanted.

8. We fully recognize the fact that the general welfare of the country will be promoted by giving preference to the transportation of fuel for the first four priority classes enumerated in Service Order No. 23, but to give the transportation of fuel for all other purposes a priority over the transportation of all other commodities, and especially construction materials, upon which 11,000,000 of our people are dependent for their daily bread, will not carry out the purpose of the Commission and will have an effect which will disrupt the business of this country in a way that will work a hardship far beyond the requirement for the transportation of fuel for a general purpose after the necessary emergency purposes are met.

9. We desire to make the point that after the four necessary emergency cases are met, fuel should take a class along with other materials necessary for the normal business of the country. What fuel is to manufacturing, construction materials are to actual construction. *In a word, building materials are the fuel of construction.*

10. With the enormous demand for coal which will accompany the reopening of the mines, so few cars will be available for construction materials, under the terms of Service Order No. 23, that four-fifths of all construction projects east of the Mississippi River will be obliged to close down.

11. Your petitioner respectfully prays that Service Order No. 23 be amended so as to provide that after the railroads have supplied open-top equipment sufficient to carry the fuel required by the first four priority classes enumerated in said Order, that they be directed to supply open-top equipment without preference to all other commodities including coal.

12. If it would better serve the purpose of the Commission to permit construction materials to have a parity of classification with the fifth class of priority for fuel, then your petitioner prays that the said Service Order No. 23 be amended so as to direct such furnishing of open-top equipment to construction materials by the carriers.

13. If the Commission desires further facts along the line of those stated above in this petition, your petitioner stands ready to answer its call and to furnish all data in its possession.

14. Your petitioner respectfully prays an opportunity to be heard in support of the prayer of this petition.

Respectfully submitted,
ASSOCIATED GENERAL CONTRACTORS OF AMERICA,
By: R. C. MARSHALL, Jr.,
General Manager.

EXTRA WORK

How Conducted and How Paid For

SUBMITTED BY

*The General Contractors' Association of Cleveland**

It has been common experience that the matter of charges and credits for additions to or omissions from plans and specifications for a building project are apt to be a source of controversy between the contractor and owner. Un-

*Prepared by the Standardization Committee, K. H. Pratt, chairman.

(Continued on page 562)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (alts.), 6023 Drexel road, Philadelphia. Architect, private plans. Owner, care of Thomas Jamison, 117 Maple avenue, Bala, Pa. Carpentry, mill work, plumbing, plastering, metal lath, tile work. Thomas Jamison taking bids due September 1st.

Y. M. C. A. Building (add.), Germantown avenue and Haines street. Architect, Benjamin F. Betts, Land Title Building, Philadelphia. Owners, Y. M. C. A., Germantown Branch, on premises. Brick and stucco, 2 stories, 50x90 feet, slag roof, maple floors, hollow tile, metal lath, steam heat, electric lighting, tile and marble work, ornamental iron work. Architect will take revised bids after September 1st.

Factory, 926-28 Locust street, Philadelphia. Architects, Penwood Company, 131 North Fifteenth street, Philadelphia. Owners, Finkelstein Brothers, 303 South street, Philadelphia. Reinforced concrete and steel, 5 stories and basement, 33x105 feet, slag roof, cement floors, rolled steel sash, (2) elevators (vapor heating, electric lighting and plumbing and elevators reserved). Architects taking bids due September 2nd.

Residence, South side Chelwynde avenue, West of Sixty-third street, $4,100. Architect, private plans. Owner, James M. Myles, 1928 South Croskey street, Philadelphia. Brick and stucco, 3 stories, 16x23 feet, 16x29 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (6), 4912-22 "C" street, Philadelphia, $4,000 each. Architect, private plans. Owners, T. P. & P. J. McFarland, 2409 East Allegheny avenue, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hot water heat, electric light. Owner will build.

Residence (alts. and add.), Southeast Corner Forty-second and Leidy avenue, $4,000. Architect, private plans. Owner, Max Cotler, 1220 North Forty-second street, Philadelphia. Brick, 1 story add., 10x10 feet, slag roof, general alterations. Owner will build.

Auditorium Building, Holmesburg, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Emmanuel Protestant Episcopal Church, Holmesburg, Philadelphia. Stone and steel, 1½ stories, 42x84 feet, slate roof, pine floors, tile work, metal lath, (heating, plumbing and electric work reserved). Revised plans in progress.

Office Building, 114 to 122 North Twelfth street, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, Walter Hering, president, Globe Ticket Co., 112 North Twelfth street, Philadelphia. Stone, steel and concrete, 8 stories and basement, 60x170 feet ,wing 47x69 feet, electric lighting, steam heating, elevators, tile and marble work, cement work, metal lath. Plans in progress. Architects will take bids in three weeks.

Apartments (alts.) from Residence, 1721 Diamond street. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, Miss Eva Thornton, care of architect. General alterations and additions, hot water heat, electric light, tile and marble work, hardwood floors, new partitions. Plans in progress.

Store and Apartments (alts.), 3620-22 North Broad street, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Theodore Marquetand & Reinhart, care of architect. General alterations, slag roof, hardwood floors ,hot water heat, electric light, tile work, hollow metal skylights, plate glass, metal bulks. Plans in progress.

Wading Pool and Shelter, Sixth and Christian streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, B. H. Warburton, 584 City Hall, Philadelphia. One story, 35x26 feet, shingle roof, cement floor, carpentry, mill work, painting, sodding, bond, iron fences. Plans completed. Owners will take bids in one week.

Office and Residence (add.), 3436 North Thirteenth street, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Drs. G. Frederick P. and Mary Groth, on premises. Brick, terra cotta and stone, 10x15 feet, carpentry, mill work, leaded glass, plastering, ornamental iron work. Owners will be ready for bids in one week.

Stores and Dwellings (12), Residences (5). Lancaster avenue, Forty-third, Parrish and Reno streets, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, Harry Wolfe, 736 Moyamensing avenue, Philadelphia. Brick, 2 stories, (12) 16x60 feet and (5) 15x42 feet, irregular, slag roof, hardwood and pine floors, hot water heat, electric light, plate glass, metal ceilings, metal bulks. Owner is taking sub-bids.

Apartment House, Philadelphia. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Brick and cut stone, 3 stories, 36x52 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile and iron work. Architect is taking sub-bids.

Residences (2), Lebanon and Wynnewood avenue, and (8) Woodbine avenue and Upland street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Martin M. Williams, 539 South Fifty-second street, Philadelphia. Brick, 3 stories, 16x45 feet, (twin) slate, slag and tin roof, hardwood and cement floors, metal lath, hot water heat, electric light, tile and marble work. J. A. Maloney, 6308 Sherwood road, will build and is taking sub-bids.

Post Office Building, Southwest Corner Griscom and Sellers streets, Philadelphia, $30,000. Architect, Samuel D. Milnor, 1117 Foulkrod street, Philadelphia. Owner, Agnes Slavin, 1135 Fillmore street, Philadelphia. Brick, 1 story, 60x92 feet, slag and composition roof, electric light, steam heat, wood and cement floors. Architect is taking sub-bids.

Cement Floors, Cross Corridors, Observation Building, Second and Luzerne streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, C. L. Furbush, M. D., 584 City Hall, Philadelphia. Cement floors, bond. Owners will be ready for bids in a few days.

Factory, Trenton and Susquehanna avenues, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, William K. Caldwell, 3128 North Ninth street, Philadelphia. Brick and steel, third story add., 52x37 feet, slag roof, pine floors (heating and lighting reserved). Architect taking bids due September 4th.

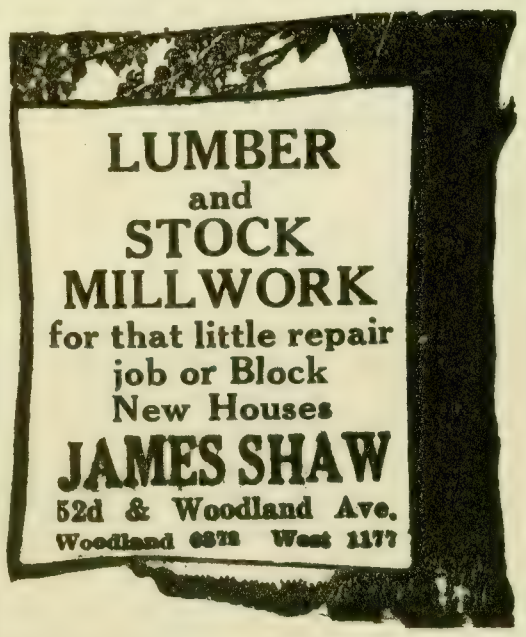
Apartment House, Venango street, between Twenty-first and Twenty-second streeets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners,

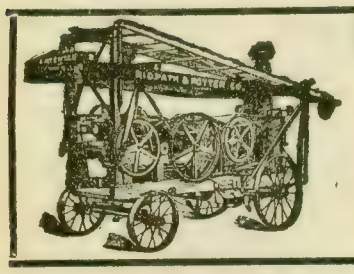
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Venango Realty Co., care of architect. **Brick**, cut stone, steel and granite, 3 stories, 105x39 feet, slag roof, oak, pine and composition floors, dampproofing, iron work, kalamein doors, tile and marble, demolition. Architect taking bids due September 9th at noon.

Stores and Residences (alts. and add.), 5338-40-42 Market street, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street. Owner, A. Brown, 310 Lincoln Building, Philadelphia. Brick, cut stone and steel, 2 stories, 48x18 feet, slag roof, mineral and pine floors, metal lath, demolition, electric light, tile and marble work, fire doors, bond, iron work (heating reserved). Architect taking bids due Augus 31st.

Public School, Bingham, Palmetto and Bleigh streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, cut stone, steel and granite, 2 stories, attic and basement, 134x113 feet, demolition, composition roof, cement and maple floors, metal weather strip, waterproofing, iron work, bond, hollow metal doors, rolled steel sash, tile and marble work, metal lath, demolition. Owners taking bids due September 7th.

Store and Office Building, Southwest Corner Fifteenth and Spruce streets, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Brick, terra cotta and steel, 2 stories, 110x30 feet, slag roof, pine floors, steam heat, electric light, metal lath, hollow metal skylights, iron work. Architect taking bids due September 1st.

Building (alts. and add.), 112 South Twentieth streets, Philadelphia. Architect, private plans. Owner, H. H. Happold, Widener Building, Philadelphia. Owner taking separate bids on heating, electric work and plumbing due August 31st.

Supplies, Philadelphia. Owners, School District of Philadelphia, Mahlon D. Savage, superintendent of Supplies, Nineteenth above Chestnut street, Philadelphia. Manual training machinery, steel lockers, etc. Owners taking bids due September 7th at noon.

Residence and Garage, North side Mt. Pleasant, West of Anderson avenue, Philadelphia, $19,000. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Stone, 3 stories, 29x50 feet, slate roof, hot water heat, electric light, oak and yellow pine floors, cement floors, tile work. Owner will build.

Armory (alts. and add.), 4111 Mantua avenue, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Armory Board, care of State of Pennsylvania, Benjamin W. Demming, secretary, Harrisburg, Pa. Brick and steel, 2 stories and basement, tin and composition roof, granolithic and composition floors, bond, wire work (heating, lighting and plumbing separate bids). Lowest bidders: George H. Evans, Inc., 109 North Thirteenth street, Philadelphia, $11,282; alternate, No. 1, $1,586; alternate, No. 2, $1,170. Mitchell Brothers, 2125 Race street, Philadelphia, $12,433; alternate, No. 1, $1,820; alternate, No. 2, $1,800. F. G. Stewart, 1619 Sansom street, $14,350; alternate, No. 1, $3,110; alternate, No. 2, $1,868.

Recreation Centre, Pennsdale and Mitchell streets, Roxborough. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of Recreation, Department of Public Welfare, B. H. Warburton, Director, 595 City Hall, Philadelphia. Concrete work, terra cotta pipe, cast iron frames and gratings, cement curbs and sidewalks, iron gates and fences, hardware, painting, wire screens, drinking fountains. Lowest bidders: O'Neill Co., 127 East Mermaid lane, Philadelphia, $49,260; Brown Const. Co., 105 Levering street, $57,892.

Residences (9), 6639 to 6655 Germantown avenue, $54,000. Owner, Eugene Raymond, 1416 South Penn Square, Philadelphia. Brick, 2 stories, 17x28 feet, 13x19 feet, 18x26 feet, 13x19 feet, 16x50 feet, and 16½x28x19 feet. Owner will build.

Residences (2), Sixty-fifth avenue, East of Twenty-first street, $7,800. Architect, private plans. Owner, J. F. Fechtenberg, 6230 Limekiln pike, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 15½x42 feet, slag roof, hot water heat, electric light, oak and pine floors, tile work. Owner will build.

Residences (18), 100-34 Rex street, Philadelphia, $6,000. Architect, private plans. Owners, R. T. Mitchell & Son, 6322 Germantown avenue, Philadelphia. Brick, 2 stories, 18x38½ feet, slag roof, hot water heat, electric light, tile work. Owner will build.

Residences (2), South side Shawmont avenue, East of Ridge, $6,000 each. Architect, private plans. Owner, Edward Clark, 536 East Walnut lane, Philadelphia. Stone and frame, 2 stories, 26x30 feet, 14x10 feet, slate roof, hot air heat, electric work, oak and pine floors. Owner will build.

Residences (2), North side Tyson street, West of Gillespie, $5,000 each. Architect, private plans. Owner, John G. Stevenson, 7014 Hegerman street, Philadelphia. Brick, 2 stories, 18x34 feet, 20x13 feet, slag roof, hot water heat, electric light, tile work. Owner will build.

Residences (2), 3006-08 Tyson street, Philadelphia, $5,000. Architect, private plans. Owner, E. Samuel Gercke, 3034 Tyson street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 47 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

Residences (14), North side Pennsdale street, West of Manayunk. Architect, private plans. Owners, C. M. Swartley & Son, 6835 Ridge avenue, Philadelphia. Brick, 2 stories, 20x30 feet, slag roof, hot water heat, electric light. Owner will build.

Residences and Stores (2), 4421-23 Chestnut street, $6,000 each. Architect, private plans. Owner, D. Litman, 1597 North Fifty-second street, Philadelphia. Brick, 3 stories, 17x75 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

Residences (2), Disston street, West of Cottage street, $4,500 each. Architect, private plans. Owner, James W. Orr, Bustleton pike, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 40 feet 5 inches, slag roof, hot water heat. Owner will build.

Storage (alts. and add.), 2045-47 Cuthbert street, $4,000. Architect, private plans. Owner, James M. Neeley, 55 North Twenty-first street, Philadelphia. Brick, 2 stories, 30x32 feet, slag roof, yellow pine floors, electric lighting. Owner will build.

Shop (add.), 1121-23 North Third street, Philadelphia, $3,000. Architect, private plans. Owner, Louis Wagner, 3113 North Sixteenth

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street, Philadelphia. Brick, 1 story, 42x66 feet ,slag roof, electric work, yellow pine floors. Owner will build.

Garage (rear), 5013 Melrose street, $2,000. Architect, private plans. Owner, M. B. Dumsha, on premises. Brick, 1 story, 23 feet 10 inches x 34 feet, slag roof, cement floor. Owner will build.

Residence (2 family), 2233 North Broad street, Philadelphia, $4,500. Architect, private plans. Owner, H. Ellenberg, 1412 Diamond street, Philadelphia. Brick, 1 story, tin roof, electric light, yellow pine floors, Owner will build.

Service Building and Show Room, 1618 North Broad street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owners, Nahm & Greenberg, Morris Building, Philadelphia. Brick, stone, steel and concrete, 2 stories. Plans in progress.

Store (alts.), 2835-37 Germantown avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, George Eichenhoffer, care of architect. General alterations (interior), electric work, plumbing, flush bulks, stair work, galvanized iron work. Plans in progress.

Commercial Building, Southeast Corner Tenth and Wood streets, Philadelphia. Architect not yet selected. Owners, Hoover Slotter Co., 4 South Fifteenth street, Philadelphia. Brick, stone, steel and concrete, 3 stories. Work contemplated. Architect not yet selected.

Office Building, Broad and Callowhill streets, Philadelphia. Architect not selected. Owners, Philadelphia Inquirer, 1109 Market street, Phila. Brick, stone, steel and concrete. Preliminary plans in progress. Too early for details.

Restaurant Building, 1317-19-21 Locust street, Philadelphia. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owners, Murray Restaurant, 228 West Forty-second street, New York City. Preliminary plans in progress. Too early for details.

Factory, Southeast Corner Fifth and Master streets, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Jacob Kienel, Unique Knitting Mills, 4841 North Fifth street, Philadelphia. Brick, terra cotta and steel, 4 stories and basement, 99x67 feet, slag roof, maple and oak floors, metal ceilings, dampproofing, iron work, bond, fire and kalamein doors, rolled steel sash and skylights, tile work, metal lath, demolition (heating, electric work, plumbing and elevators reserved). Architect taking bids due September 5th at noon.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building for Tubercular Mental Patients, Byberry, Philadelphia. Architect, Philip H. Johnson. 1713 Sansom street, Philadelphia. Owners, Bureau of Hospitals, Department of Public Health, C. L. Furbush, M. D., Director, 584 City Hall, Philadelphia. Brick, cut stone, hollow tile and stucco, 1½ stories, 148x35 feet (2 wings 90x43 feet), slag and asbestos shingle roof, granolithic and pine floors, roof ventilators, waterproofing, iron work and stairs, steel doors ,rolled steel sash and skylights, marble and terrazzo work, metal lath. Contract awarded to George H. Evans, Inc., 109 North Thirteenth street, **Philadelphia,** $119,430.

Office Building, Thirteenth and Spruce streets, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Philadelphia Real Estate Board, 1126 Walnut street, Philadelphia.. Brick, cut stone and steel, 3 stories, mezzanine and basement, 103x36 feet (heating, plumbing and electric work reserved), slag roof, concrete floors, hollow tile, metal lath, safety treads, roof ventilators, tile, marble and terrazzo work, rolled steel sash and skylights, tin clad and kalamein doors, bond. floor hardener, iron stairs, ornamental iron work. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Church (alts. and add.), Thirteenth and Rockland streets, Philadelphia, $8,900. Architect, A. L. Dobbins, 1701 Arch street, Philadelphia. Owners, Logan Methodist Episcopal Church, on premises. Brick and cut stone, 2 story add. 29x40 feet, slag roof, pine floors, electric lighting, iron work. Contract awarded to Harry F. Barnes, 2080 East Willard street.

Residences, 2116 to 2122 Sansom street, and 114 to 120 South Van Pelt street, Philadelphia, $12,000. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Sansom Garden, Irvin King, 132 South Fourth street, Philadelphia. Remodeling, electric work, ornamental iron work, masonry, plastering, steel work, carpentry, mill work, plastering, painting (heating reserved). Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

Building, 1819-21 Callowhill street, Philadelphia, $13,500. Architect, W. Macy Stanton, 1310 Arch street, Philadelphia. Owner, William J. Roseborough, care of architect. Brick, cut stone and steel, 2 stories, 100x32 feet ,slag roof, pine floors, rolled steel sash, hollow metal skylights, iron work (heating, plastering, glazing and electric work reserved). Contract awarded to Turnbull & Cornell, 20 South Eighteenth street, Philadelphia.

Residences (22), Columbia avenue, East of

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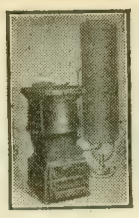
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1/10″	3.50	1/2″	4.75
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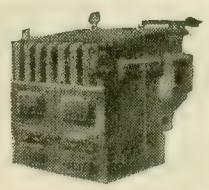
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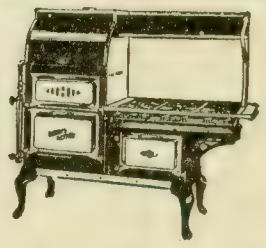
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Sixty-fourth street, $180,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Martin M. Williams, 539 South Fifty-second street, Philadelphia. Brick, 2 stories, 20x32 feet, 19x32 feet, 15x11 feet and 16x32 feet, 13x11 feet, metal lath, central heating plant, slag roof, electric work, oak and pine floors, tile work. Contract awarded to J. A. Maloney, 6308 Sherwood road, who is taking sub-bids.

Residences and Stores (3) (alts. and add.), 1447-49-51 Point Breeze avenue, $6,100. Architect, Sol. Kaplan, 929 Chestnut street, Philadelphia. Owner, Harry Allen, 1449 Point Breeze avenue, Philadelphia. Brick, 1 story, 16x18 feet, and 1 story, 13x9 feet, slag roof, electric work, oak and pine floors. Contract awarded to F. P. Dillon, 1223 South Twentieth street.

Residence, 1117 Wakeling street, Philadelphia, $14,000. Architect, private plans. Owner, Albert Halstead, 1110 Fillmore street, Philadelphia. Brick, 3 stories, 32x32 feet, slag roof, hot water heat, electric light, oak and pine floors, tile work. Contract awarded to Edward W. Taylor, Oxford and Wakeling streets.

Garage (add.), Northwest Corner Allegheny avenue and American street, $9,500. Owner, Elmer Miller, 519 East Allegheny avenue, Philadelphia. Brick, 1 story, 17x36 feet, slag roof, cement floors, electric light. Contract awarded to A. Earl Barnes, 2044 East Clementine street.

Lumber Storage House, South side Botanic avenue, East of Fiftieth, $32,000. Architect, private plans. Owners, George W. Smith Co., Forty-ninth and Botanic avenue. Iron, 1 story, 80½x154 feet, corrugated iron, electric light, cement floors. Contract awarded to John N. Gill Const. Co., 112 South Sixteenth street.

Residences and Stores (3), 7517-19-21 Rising Sun avenue, $6,500 each. Architect, private plans. Owner, Joseph Marcus, Fox Chase, Pa. Brick, 2 stories, 16x53 feet, 16x10 feet. Contract awarded to Joseph Ashby, Fox Chase, Pa.

Residence and Store and Office (add.), 4740 Frankford avenue, $5,000. Architect, private plans. Owners, Gentry & Otto, on premises. Brick, third story add., 20x112 feet, and second story, 7x7 feet, slag roof, electric lighting. Contract awarded to George W. Crosbey, 2264 Bridge street.

Garage, 3913-15 Ludlow street, Philadelphia, $4,000. Architect, private plans. Owner, Daniel Dever, 1636 Market street, Philadelphia. Brick, 1 story, 37x120 feet, slag roof, cement floors, electric lighting, steel sash. Contract awarded to John Welsh, 5222 Green street, Philadelphia.

Residence and Store (add. and alts.), 1633 South street, $4,000. Architect, private plans. Owner, M. C. Levin, on premises. Brick, 2 stories, 16x24 feet, slag roof, general alterations. Contract awarded to Jacob Ignatio, 1101 North Forty-second street.

Residence, Palmetto street, South of Benner street, $2,500. Architect, private plans. Owner, Joseph Mattis, 357 Reno street, Philadelphia. Frame, 2½ stories, 22x34 feet, shingle roof. Contract awarded to Louis Mattis, 634 Arthur street, Fox Chase.

Residences (2 family), Southeast Corner Lawrence and Olney avenue, $8,300. Architect, private plans. Owner, Leonard Reichard, 425 Olney avenue, Philadelphia. Brick, 2 stories, 20x60 feet, slag roof ,oak and pine floors. Contract awarded to Northern Const. Co., Fifth and Fishers avenue.

Office Building, 336 South Fourth street, Philadelphia, $6,000. Owners, Kauffman Insurance Co., Drexel Building, Philadelphia. Brick, 1 story, 13x80 feet, slag roof, steam heat, electric light. Contract awarded to Clayton Lofland, 231 South Water street.

Residence, 2203 Naudain street, Philadelphia, 5,000. Architect, private plans. Owner, Robert Williams, Twenty-second and Naudain streets, Philadelphia. Brick, 2 stories, 17x36 feet, 13x10 feet, slag roof, electric light. Contract awarded to T. B. Monaghan, 2009 Sansom street, Philadelphia.

Residences (2), West side J street, North of Cottman street, $5,000. Architect, private plans. Owner, Henry Cornelius, Glenside, Pa. Frame, 2 stories, 15x42 feet, shingle roof, hot water heat. Contract awarded to Harry Cornelius & Son, Glenside, Pa.

Residence and Garage, North side Foulkrod street, East of Horrocks, $5,400. Architect, private plans. Owner, Harry Cox, 1510 Harrison street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heat, electric light. Contract awarded to Chancellor Day, 3503 Decatur street, Philadelphia .

Residence and Store (alts. and add.), 6224 Woodland avenue, $2,000. Architect, private plans. Owner, P. Pellrillo, 2218 South Sixty-third street, Philadelphia. Brick, 1 story, 15x18 feet, general alterations. Contract awarded to William B. Stackhouse, 2043 Cemetery lane.

Store and Rooming House (alts.), 3719 Spruce street, $3,000. Architect, private plans. Owner, J. Cohen, on premises. General interior alterations. Contract awarded to I. Shulman, 1930 North Eighth street, Philadelphia.

Residence (2 family) and Store, 4501 Springfield avenue, $3,000. Architect, private plans. Owners, Charles Lafferty Estate, 1312 Washington avenue, Philadelphia. Brick, 1 story, 18x15 feet, slag roof, oak and pine floors. Contract awarded to F. T. Mercer Co., 1916 Brandywine street.

Building (alts.), Northwest Corner Fernon and Point Breeze avenue, $2,500. Architect, private plans. Owner, M. Bernstein, 1610 Point Breeze avenue, Philadelphia. General interior alterations. Contract awarded to J. Salter, 1219 North Franklin street.

Stores (3) and Residences (2), 4506-08 Frankford avenue, $10,000. Architect, private plans. Owners, Chabrow Brothers, 24 South Front street, Philadelphia. Carpentry, mill work, painting, glazing, tile work, plastering, iron work, electric work, general alterations. Contract awarded to Edward Holland, 5005 Sansom street, Philadelphia.

Store, East side Lawrence, South of Olney avenue, $2,200. Architect, private plans. Owner, Leonard Reichard, 423 Olney avenue, Philadelphia. Brick, 1 story, 40x23 feet, slag roof, electric lighting. Contract awarded to Northern Const. Co., Fifth and Fisher's avenue.

Residence (alts.), 6705 Rising Sun avenue, $2,200. Architect, private plans. Owner, Charles Enstos, 6229 North Front street, Philadelphia. General interior alterations. Contract awarded to F. Wiggs & Son, 740 Sentner street, Philadelphia.

Storage (add.), 2700 Earp street, Philadelphia, $2,500. Architect, private plans. Owner, David Schwartz, 2700 Earp street, Philadelphia. Brick, 1 story, 11x14 feet, slag roof, yellow pine floors. Contract awarded to H. Ruboff, 2323 Brown street, Philadelphia.

Storage (alts.), North side Tabor road, East of Rising Sun avenue, $2,000. Architect, private plans. Owners, W. H. Whitaker & Son, on premises. General interior alterations. Contract awarded to F. G. English & Son, 1610 North Carlisle street.

Shop (alts.), 1824 Chestnut street, Philadelphia. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owner, Oliver H. Bair, on premises. Cut stone, carpentry, plastering, cement work, terrazzo and marble work, iron work, hardware, painting, glazing. Contract awarded to Frank E. Wallace, 1220 Chancellor street.

Residence and Garage, Midvale and Stokley streets, Philadelphia, $17,000. Architect, Carl P. Berger, Penn Square Building, Philadelphia. Owner, Carl Rumpp, Fifth and Cherry streets, Philadelphia. Hollow tile and stucco, 2½ stories, 50x27 feet, shingle roof, oak, pine and cement floors, hot water heat, electric light, tile work. Contract awarded to P. A. Waltz, Oak Lane avenue and P. & R. R. R., Oak Lane, Philadelphia.

Store (alts. and add.), 1308 Walnut street, Philadelphia, $15,000. Architect, private plans. Owners, Wilson, Marshall & Sticker, 1222 Walnut street, Philadelphia. Brick, 2 stories, 20x30 feet, 5x36 feet, slag roof, steam heat, electric light. Contract awarded to Edward Fay & Son, 2 South Mole street, Philadelphia.

Residence and Store (alts. and add.), Southeast Corner Kensington avenue and Thayer street, $5,500. Architect, private plans. Owner, Morris Morganstein, 3353 Kensington avenue, Philadelphia. Brick, 2 stories, 17x7½ feet, slag roof, electric lighting. Contract awarded to D. B. Daub, 1139 East Tioga street, Philadelphia.

Coal Storage Building, Northwest Corner P. & R. Ry. and Germantown avenue, $18,000. Architect, private plans. Owners, John T. Craig Co., 83 Armat street, Germantown, Philadelphia. Concrete, 1 story, 20x45 feet. Contract awarded to J. B. Nicholson, 342 Madison avenue, New York.

Residence and Store, Southwest Corner Ninth and Christian streets, $9,300. Architect, private plans. Owner, Anthony P. Gunta, Northeast Corner Eleventh and Christian streets. Brick, 3 stories, 19x29 feet, 14x20 feet, slag roof, electric work. Contract awarded to Cerasoli & Scurci, 1709 South Eleventh street.

Offices (alts.), 128-40 North Broad street, $7,000. Architect, private plans. Owners, Guaranty Corporation, 140 North Broad street, Philadelphia. Carpentry, mill work, plastering, metal lath. Contract awarded to William Armstrong & Son, Phil-Ellena and Chew streets, Philadelphia.

Garage, 2867 Tulip street, Philadelphia, $5,000. Owner, M. Finestine, 2983 Weikel street, Philadelphia. Brick, 1 story, 30x120 feet 10 inches, slag roof, hot water heat, electric light, cement floors. Contract awarded to H. B. Kuster, 3029 Cedar street, Philadelphia.

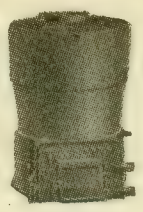
Store (alts. and add.), 679 North Fifty-second street, Philadelphia, $2,500. Architect, private plans. Owner, Joseph W. Jackson, on premises. Brick, 2 stories, 3x22 feet, slag roof, electric lighting. Contract awarded to P. H. Garrett, 5905 Osage avenue, Philadelphia.

Residence and Store (add. and alts.), 507 South Fourth street, $2,400. Architect, private plans. Owner, M. Granston, 1515 North Thirty-third street, Philadelphia. Brick, 2 stories, 11x32 feet, third story, 11x14 feet, slag roof, electric work, pine floors. Contract awarded to J. Goldstein, 3205 Montgomery avenue.

Residence and Store (add.), Northwest Corner Limekiln pike and Chelten avenue, $4,250. Architect, Raymond Holland, 7420 Limekiln pike, Philadelphia. Owner, W. McGee, on premises. Brick, 1 story, 16x20 feet, slag roof, hot water heat, electric, tile work, oak and pine floors. Contract awarded to S. S. Billingley, 1230 East Chelten avenue.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Low bidders as follows:

Grading—Fayette street, from Washington lane to Limekiln pike; Harry B. Warren, 4312 North Fourth street, Germantown, Philadelphia, $24,022.49. Ferndale street, Wolly to Benson streets; Curtiss Brothers, Kensington and Deal avenues, $2,065.00. Henry avenue, Kingsley to Markle street; Andrew O'Neil, 4410 Manayunk avenue, $7,086.55. Luzerne street, Second to Oxford Branch of P. R. R.; T. L. Flannigan, 1204 East Montgomery avenue, $22,681.46. Turner street, Fifty-ninth to Sixtieth; John Meehan & Sons, 915 West Dauphin street, $2,629.54. Washington lane,



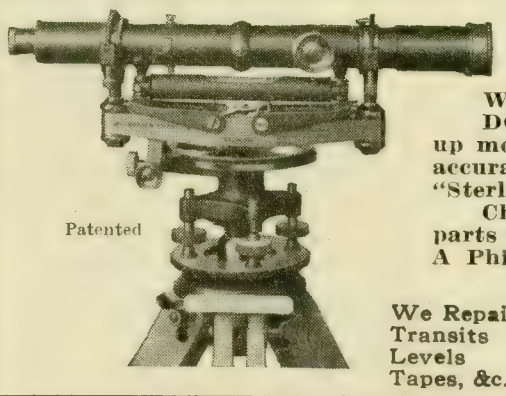
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Wissahickon avenue to Walnut lane; Frank Mark Cont. Co., Commercial Trust Building, $3,043.60. Twenty-eighth street, Clearfield street to Chalmers avenue; John Meehan & Sons, 915 West Dauphin street, $6,903.59.

Asphalt Paving—Buise avenue, Seventieth to Seventy-first, $10,229.50; Columbia avenue, Fifty-ninth to Sixtieth, $6,881.29; Haines street, Ogontz avenue to Limekiln pike, $17,-109.14; Louden street, C to D street, $5,292.71; Pittsville avenue, Limekiln pike to Ogontz avenue, $13,608.85; Price street, Ardleigh to Crittenden, $13,548.95; Turner street, Fifty-fourth to Columbia avenue, $2,762.60; Twenty-third street, Wolf street to 195 feet South, $3,551.86; Eastern Paving Company, Colonial Trust Building, Philadelphia. Lombard street, Twenty-seventh to Schuylkill River; John Meehan & Sons, 915 West Dauphin street, 3,902.90. Torresdale avenue, Frankford avenue to Lewis street; Eastern Paving Co., Colonial Trust Building, $18,-281.90. Twenty-second street, from Locust to Fitzwater; Barber Asphalt Paving Co., Land Title Building; $35,773.51.

Store (alts.), Northeast Corner Seventh and Market streets, Philadelphia, $8,000. Architect, J. B. Pfeiffer, care of owner. Owners, U. R. S. Candy Stores, Twelfth and Chestnut streets, Philadelphia. Carpentry, mill work, plastering, plate glass, painting, glazing, marble work, metal ceilings. Contract awarded to Fine & Windroff, 236 West Thirty-fifth street, New York City.

Stores (2), East side Torresdale avenue, North of Comley, $6,200. Architect, private plans. Owner, J. E. Schnitzer, on premises. Brick, 1 story, 18x60½ feet, slag roof, oak and pine floors. Contract awarded to James W. Orr, Bustleton avenue and Knorr street.

Office and Warehouse, Northwest Corner Warnock and St. James streets, $120,000. Architect, private plans. Owners, Horn & Hardart Baking Co., 214 South Tenth street, Philadelphia. Steel and brick, 3 stories, 78x73 feet, slag roof, cement floors, steam heat, electric light, hardware, waterproofing. Contract awarded to Harry R. Rust, 19 South Eighth street, Philadelphia.

Residences (2), West side Rising Sun avenue, South of Cottman, $4,750 each. Architect, private plans. Owner, W. Walter, Rising Sun avenue, South of Cottman street. Brick and frame, 2 stories, 16x43 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to William B. Gayde, Cheltenham, Pa.

Garage, North side Magee street, West of Torresdale avenue, $3,500. Owner, George Stricker, 2981 Frankford avenue, Philadelphia. Brick and iron, 1 story, 33x55 feet, slag roof, hot water heat. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

PENNSYLVANIA
Construction News

Store, 726-28-30 Penn street, Reading, Pa. Architect, F. A. Muhlenberg, 24 North Sixth street, Reading, Pa. Owners, Harold Furniture Co., 812 Penn street, Reading, Pa. Brick, steel, limestone, 5 stories and basement, 40x270 feet, and 40x180 feet, asphalt roof, terrazzo and cement floors, hollow tile, passenger and freight elevators, metal lath, tile, marble and terrazzo work (heating, electric work, plumbing and elevators reserved), rolled steel sash, roof ventilators, iron stairs, ornamental iron work. Architect will take bids September 1st.

School, Northmont, Reading, Pa. Architect, F. A. Muhlenberg, 24 North Sixth street, Reading, Pa. Owners, Reading School Board, O. B. Heims, secretary, Administration Building, Reading, Pa. Brick and terra cotta, 2 stories, 60x35 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved), roof ventilators, ornamental iron work. Owner will be ready for bids September 1st.

Store, Lansford, Pa. Architect, F. A. Muhlenberg, 24 North Sixth street, Reading, Pa. Owners, J. C. Bright Co., Lansford, Pa. Brick, limestone, 2 stories, 70x170 feet, slag roof, hardwood floors, steam heat, electric light, store fixtures. Architect will be ready for bids September 10th.

Foundry Building, Reading, Pa. Architect, F. A. Muhlenberg, 24 North Sixth street, Reading, Pa. Owners, Chantrell Hardware & Tool Co., Millmont, Reading, Pa. Brick, 1 story, 60x90 feet, asphalt roof, electric light, roof ventilators, rolled steel sash. Architect ready for bids due September 6th.

School, Mt. Penn, Reading, Pa. Architect, H. Maurer, 226 North Fifth street, Reading, Pa. Owners, Mt. Penn School Board, W. Edgar Bates, secretary, Mt. Penn, Reading, Pa. Brick, 1 and 2 stories, 38x160 feet, Spanish tile roof, maple floors, hollow tile (heating, plumbing and electric work reserved), roof ventilators, waterproofing and dampproofing. Owners ready for bids due September 18th.

Factory, Warehouse and Garage, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, H. S. Haltzel, 12 South Hall street, Allentown, Pa. Fireproof, 2 stories and basement, 80x315 feet, composition roof, concrete and wood floors, electric light, metal lath, freight elevators, rolled steel sash, fire doors, waterproofing, dampproofing. Owner will build.

Garfield School Annex, Lebanon, Pa., $100,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lebanon School Board, W. P. Mock, secretary, Lebanon, Pa. Brick, fireproof, reinforced concrete, steel, 2 stories and basement, 56x123 feet, composition roof and floors (heating, plumbing and electric work reserved), metal lath, hollow gypsum block, hollow metal sash, slate boards, waterproofing, floor hardener, hollow tile. Owners taking bids due September 1st.

Residence, Lucknow, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Miss Caroline Keefer, Riverside Drive, Harrisburg, Pa. Brick, stucco 2½ stories, 32x44 feet, shingle roof, hardwood floors, vacuum heat. Architect taking bids.

School, Penn Square, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street. Owners, Penn Square School District, East Norriton Township, Pa. Brick, 1 story, slate and slag roof, pine and cement floors, plumbing, hot air heat, electric light and fixtures, slate work, water pumping system. Owners taking bids due September 6th.

Residence, Sedgwick, Pa. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owner, F. E. Hipple, 1529 North Broad street, Philadelphia. Stone, 2½ stories, 39x28 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Revised plans about completed. Architect will take new bids in a few days.

School and Auditorium, Newmanstown, Pa. Architect, H. Maurer, 226 North Fifth street, Reading, Pa. Owners, Mill Creek School District, care of Regis Chauvenet, secretary, Newmanstown, Pa. Brick, 2 stories, 70x100 feet, slag roof, maple floors, metal lath (electric work, heating and plumbing reserved), rolled steel sash. Owners ready for bids due September 18th.

Capitol Park (improvements), Harrisburg, Pa. Architect, Arnold W. Brunner, 101 Park avenue, New York City. Owners, State of Pennsylvania, Board of Commissioners of Public Grounds and Buildings, T. W. Templeton, Superintendent, Harrisburg, Pa. Granite steps, checks and curb, excavating, grading, cement work, plumbing and drainage, electric conduits and installation, cast iron lamp standards. Owners taking bids due September 12th at noon. Deposit of $10.00 on each contract set. (3) sets.

Residence and Garage, Cynwyd, Pa. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, A. C. Delaplaine, Bala, Pa. Hollow tile and plaster, 2½ stories, 27x39 feet, wing 14x18 feet, slate roof, oak and pine floors, hot water heat, electric lighting, tile work. Architect taking new bids due September 1st.

Residence and Garage, Merion, Pa., $30,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, T. H. Edwards, care of architect. Stone, 3 stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble and cement work. Architect taking bids due September 5th at noon.

Water Main, Elizabethtown, Pa. Owners, Elizabethtown Water Co., Elizabethtown, Pa. Digging trench and laying approximately 4,000 feet of 8-inch water main, trench 4½ feet deep, and to be filled. Owners taking bids due September 1st.

Lodge Building (alts. and add.), 1018 Penn street, Reading. Architects, High & Huber, 11 North Fifth street, Reading, Pa. Owners, Reading Lodge, No. 155, L. O. O. M., care of F. H. Glass, Reading. Brick, stone, concrete, steel, fireproof, 2 stories and basement, 74x270 feet, concrete foundations, tin roof, maple floors, steam heat, electric light, tile work, metal lath, dumb waiters. Owners taking bids.

Factory, Eighth and Harris streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, J. J. Taylor, Swissonia Knitting Mills, Allentown, Pa. Fireproof, 3 stories, 66x200 feet, built-up roof, concrete and wood floors, freight elevators (heating, plumbing and electric work reserved), metal lath, rolled steel sash, fire doors, dampproofing, iron stairs. Architects taking bids.

Club House (alts.), Bloomsburg, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, B. P. O. E., No. 436, Bloomsburg, Pa. General interior alterations, hardwood and composition floors, fire escapes, elevator and dumb waiter, ornamental iron work, tile work, hot water heat, electric lighting. Plans about completed. Architect will take bids in one week.

Residence and Garage, Paoli, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner ,H. Kay, care of architect. Hollow tile and stucco, 2½ stories. Preliminary plans in progress.

Business Building, York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, Manufacturers' Association, care of architect. Fireproof, steel and brick. Sketches in progress.

Sunday School Building, York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, Second United Brethren Church, Rev. A. M. Horn, 108 East South street, York. Brick. Sketches in progress.

Garage, Court alley and Philadelphia street, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owner, F. H. Wo-

gan, care of architect. Reinforced concrete and steel, 3 stories, 100x100 feeet, composition roof, concrete floors, electric light, rolled steel sash. Plans in progress.

School Building, Ashbourne, Pa. Architect, Herbert C. Wise, 1416 Chestnut street, Philadelphia. Owners, School District of Cheltenham Township, Elizabeth B. Scarborough, secretary, Elkins Park, Pa. General construction work and plumbing. Owners will take bids due September 12th at noon. Plans may be obtained from office of architect or from owner. Deposit of $25.00 on general construction, $15.00 on plumbing. Refund of $6 and $3, respectively.

School Building, Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School District, Borough of Pottstown, Pa. Brick, cut stone and steel, 2 stories, 13x66 feet, composition roof, cement and maple floors, roof ventilators, dampproofing, iron work, bond, metal lath, steam heating, electric lighting. Owners taking bids due September 7th.

Pennsylvania Contracts Awarded

Nurses' Home, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Hospital, care of Monsignor P. Masson, Allentown, Pa. Brick, 4 stories, 37x105 feet, slag roof, hardwood floors, metal lath, electric light, tile work. Contract awarded to George H. Hardner, Allentown, Pa.

School, Penllyn, Pa., $29,400. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School District, Penllyn, Pa. Brick and steel, 1 story, 58x76 feet, slate roof, maple floors, tile and marble work, iron work. Contract awarded to Barnes & McLaughlin, 17 South Seventeenth street.

Residence, Ambler, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Carrie L. Heiss, Ambler, Pa. Chestnut Hill stone, 2½ stories, 50x32 feet and 16x20 feet, shingle roof, hardwood floors, hot water heat, electric light, plumbing, tile work. Contract awarded to John Stackhouse, Ambler, Pa.

Residence, Morrisville Heights, Pa. Architect, Walter Hankin, 39 West State street, Trenton, N. J. Owner, William R. Dolton, 256 South Olden avenue, Trenton, N. J. Frame, 2½ stories, 36x24 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to F. J. Ewald, Morrisville, Pa.

Residence, Morrisville Heights, Pa. Architect, Walter Hankin, 39 West State street, Trenton, N. J. Owner, Edward B. Dolton, Jr., 46 Colonial avenue, Trenton. Frame, 2½ stories, 36x24 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to F. J. Ewald, Morrisville, Pa.

Residence, College street, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Dr. H. H. Mentzer, Carlisle, Pa. Brick, tile, 2½ stories, 36x38 feet, slate roof, hardwood floors, electric lighting, tile work. Contract awarded to H. A. Lackey, Carlisle, Pa.

Residence, Lewistown, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, Dr. S. W. Swigert, Lewistown, Pa. Brick, 2½ stories, 32x50 feet, vacuum heat, electric light, tile work, composition and shingle roof, hardwood floors. Contract awarded to W. D. Steinbach & Son, Lewistown, Pa.

Club House, York, Pa. Architect, R. A. Stair, Jr., Guardian Trust Building, York, Pa. Owners, Boys' Club, St. Paul's Lutheran Church, York, Pa. Brick, 1 story and mezzanine, 62 feet 5 inches x 28 feet, asphalt roof, maple floors, electric lighting. Contract awarded to Luther Menough, Jr., York, Pa.

New Jersey Construction News

Residence and Garage, Bridgeton, N. J. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, Albert C. Maier, Bridgeton, N. J. Frame, 2 stories, 38x32 feet, slate roof, hardwood floors, cement work, hot water heat, electric light, metal lath, tile work. Plans completed. Owner will build.

Boiler Room, North Broad street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owners, Castania Dairy, North Broad street, Trenton, N. J. Brick, 1 story, 47x32 feet, slag roof, concrete floors, electric light, rolled steel sash. Plans in progress.

Bank (alts.), Ocean City, N. J. Architect, J. Vaughan Mathis, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. General interior alterations, tile and marble work, ornamental iron work. Preliminary sketches in progress.

Residence and Office, Atlantic and Virginia avenues, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Dr. T. G. Dunlap, Virginia and Pacific avenues, Atlantic City. Brick and stone, 3 stories, 30x75 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Hotel (add.), 127 South Kentucky avenue, Atlantic City, N. J. Architect, L .R. Barber, Guarantee Trust Building, Atlantic City. Owners, Wynnefield Hotel, on premises. Brick, 4 stories, 50x125 feet, slag roof, pine floors, electric light, tile work. Plans in progress.

Store and Apartment, Pacific avenue, Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owner, Ernest Boyer, Jefferson Apartments, Atlantic City, N. J. Brick, terra cotta, 4 stories, 36x80 feet, slag roof, hardwood floors, electric light, tile work. Plans in progress.

Factory, Island road, Atlantic City, N. J. Architect, A. F. Amodie, Segal Building, Atlantic City, N. J. Owners, Atlantic Woodworking Co., 2320 Fairmount avenue, Atlantic City, N. J. Brick, 2 stories, 45x70 feet, slag roof, wood floors, electric lighting. Plans in progress.

Residence (alts. and add.), Mississippi, below Oriental avenue, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, A. C. McClellan, Phillips House, Atlantic City, N. J. Brick, frame and stucco, 4 stories, 36x80 feet, slag roof, pine floors, electric light, metal lath, elevators, roof ventilators. Revised plans in progress.

Church, West State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Christian Science Church, care of Mrs. Bonham, care of architect. Brick and frame, 1 story, 40x80 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, ornamental plaster. Architect ready for bids due September 5th.

Hotel, Surf avenue, between Twenty-third and Twenty-fourth avenue, Wildwood, N. J., $1,000,000. rchitects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, William Lipkin, Sr., 250 South Broad street, Philadelphia. Brick, steel and concrete, 6 stories, 200 rooms, electric lighting, steam heating. Preliminary plans in progress.

Residences (16), North Grammercy Place, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owners, Fader & Feinstein, care of architect. Brick, 2 stories, 16x60 feet, pine floors, electric lighting. Architect will sub-let.

Garage and Show Room, Missouri avenue, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owners, Hall & Gravitt, 2200 Atlantic avenue, Atlantic City. Brick and steel, 1 story and mezzanine, 80x180 feet, slag roof, concrete floors, electric light. Owners will sub-let.

Apartment House (alts. and add.), 210 Pacific avenue, Atlantic City. Architect, Donald Rosenstein, Humphrey Building, Atlantic City, N. J. Owners, I. Halpern & Brothers, care of architect. Brick, 3 stories, 85x24 feet, slag and asbestos shingle roof, hardwood floors, electric light, tile and marble work. Plans in progress. Architect will take bids in one week.

Apartment, North Providence Terrace, Atlantic City, N. J. Architect, J. H. Vaughan, Guarantee Trust Building, Atlantic City. Owner, George C. Felker, 17 South Kentucky avenue, Atlantic City. Brick and hollow tile, 3 stories, 73x34 feet, slag roof, pine floors, hot water heat, electric light ,tile and marble work. Architect will take bids in a few days.

Apartment, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, Ernest Byer, care of architect. Brick, steel, 4 stories, 40x100 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile and marble work, architectural terra cotta. Architect will take bids next week.

Store and Office (add.), Atlantic avenue, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, William I. Segal, Segal Building, Atlantic City, N. J. Brick, stone, 1 story, 55x140 feet, slag roof, wood floors, tile and marble work, electric light, hollow tile. Architect will be ready for bids in a few days.

Residence (add. and alts.), Somers Point, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Mrs. R. Craighead, Craig Hall, Atlantic City, N. J. Frame, 2½ stories, 40x160 feet, asbestos shingle roof, hardwood floors, hot water heat, electric lgiht, tile and marble work. Plans in progress. Architect will take bids in two weeks.

Stores (alts. and add.), 1008 Atlantic avenue, Atlantic City. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, Standard Music Co., on premises. Brick, 2 stories, 20x30 feet, slag roof, hardwood floors, hollow tile, electric light, metal lath, tile work, copper work, plaster. Owner is building.

Residences (2), 628-30 Edgwood street, Trenton, N. J., $5,000. Architect, private plans. Owner, George A. Smith, 613 Edgewood street, Trenton, N. J. Brick, frame, 2½ stories, 28x42 feet, slate roof, pine floors, hot air heat, electric light. Owner will build.

School, Gloucester Heights, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, James R. Y. Blakely, secretary, Westmont, N. J. Brick, cut stone and steel, 2 stories, 86x25 feet, slag roof, cement and pine floors, waterproofing, iron work, electric lighting, metal lath. Owners taking bids due September 6th at 8 P. M.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

New Jersey Contracts Awarded

Main Building (add.), Camden, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Cooper Hospital, Camden, N. J. Cut stone, brick, reinforced concrete and steel, 1 story, 39x56 feet, asbestos asphalt roof, cement floors (finished floors reserved), ornamental iron work. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

Residence and Garage, Ventnor, N. J., $30,000. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, E. Knoblaugh, care of architect. Brick, 3 stories, irregular size, slate and tile roof, hardwood floors, hot water heat, electric light, tile and terrazzo work. Contract awarded to Hampton Brothers, 4403 Atlantic avenue.

Residences (2), Riverside Drive, Trenton, N. J., $6,000. Architect, private plans. Owner, Peter Schlechter, Jr., care of builder. Brick, frame, 2½ stories, 16x45 feet ,slate roof, pine floors, hot air heat, electric light. Contract awarded to F. M. Engelhart, 188 Rosemont avenue, Trenton, N. J.

Residence, Greenwood avenue, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owner, Louis Kuehner, care of architect. Brick, 2½ stories, 35x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to James Burkes, 222 Ardmore avenue, Trenton, N. J.

Proposals

ADVERTISEMENT FOR POWER HOUSE TRENTON STATE NORMAL SCHOOL, TRENTON, NEW JERSEY

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct a Power House at the Trenton State Normal School will be received by the Architects at the office of the Commissioner of Education, State House, Trenton, N. J., on Sept. 7th, 1922, at 3 P. M., Daylight Saving Time.

The work for which proposals are hereby invited covers the construction of a new Power House adjacent to the present Trenton State Normal School at Trenton, New Jersey.

The Power House will be 32 feet wide by 86 feet long with an underground pump and Coal Room Addition. The building will be of brick construction with steel and timber roof and steel sash. The building will house a High Pressure Steam Plant, Electric Generators, Refrigerator Plant, etc. The boilers will be connected up to an independent radical brick chimney stack.

Bids will be received for the work under four separate contracts as follows:

1. For General Construction, which includes all Masonry, Carpentry, Steel and Iron, Roofing, Painting and all work kindred thereto.
2. For Plumbing and all work kindred thereto.
3. For Heating, including Refrigerator Plant, Chimney Ash Conveyor, and oil burning system, and all work kindred thereto.
4. For Electrical Work including Generators and Switchboard.

The right is reserved to accept or reject any or all proposals and to waive informalities. All bids must be in sealed envelopes endorsed "Proposals for Power House State Normal School, Trenton, N. J.." and stating the branch of work covered. No bid will be considered unless accompanied by a certificate check to the order of the State of New Jersey, in the amount of 5% of the bid or bond in like amount binding the bidder to execute a contract if awarded to him. The terms of proposal with Surety required are fixed by the specifications.

Copies of the drawings and specifications will be on file at the office of the Architects for the purpose of estimating; a limited number of copies of the plans and specifications will be loaned to the prospective bidders on deposit of a certified check to the order of the State of New Jersey in the sum of $25.00. These plans may be obtained by application of Guilbert & Betelle, Architect, 546 Broad Street, Newark, N. J. If plans and specifications are returned on or before the submission of estimates the check will be returned, but should the plans and specifications be not returned, the deposit may become forfeited.

Dated: August 21, 1922.

GUILBERT & BETELLE,
ARNOLD H. MOSES,
Associate Architects.

(Continued from page 552)

fortunately, it is very seldom the case that a building is put up without some alterations or modifications of the plans, which involve a change in the contract price for the work, and there has been no standard practice in adjusting these differences, so far as we can determine. Therefore, your Committee has gone into the problem of trying to determine fair and equitable relations between contractor and owner where such changes are involved, and has formulated certain very definite recommendations.

Alterations or deviations from the original plans and specifications are a source of expense to the contractor, whether the change be in the nature of an omission or in the nature of an addition. All such changes are apt to interfere with the progress of the work, delay the completion of the work as a whole, cause the contractor additional expense on other work in progress on the job which is affected by the changes, and make demands not only on the contractor's field organization but upon his main office organization out of proportion to the amount of work involved. It is evident that there should be a charge to the owner for the services so rendered, regardless of whether the work is an addition or omission.

Recommendations

This leads to our first set of recommendations:

(a) That all charges for additional work take into account the contractor's overhead in addition to the actual cost of the work and the contractor's profit.

(b) That all omissions take the same items into account, and, to accomplish this end, we recommend that allowances for omissions be based upon the actual estimated cost of the work without any allowances for the contractor's estimated profit on the operation involved—it being our thought that such estimated profit should be retained by the contractor to compensate him for the additional expense involved in deviating from the original plans.

(c) Accurate written records should be kept and all transactions relative to changes should be confirmed in writing between the contractor and owner.

Interpreting Plans and Specifications

Where work is considered by the contractor as additional to his contract price, such additional work may arise from a disagreement as to the interpretation of the plans and specifications, or it may be an addition to the plans acknowledged by the owner.

We recommend:

(1) That all contractors prohibit their field organization from proceeding with any additional work to the contract, whether acknowledged or not by the owner, without specific instructions from the contractor's main office or his authorized representative.

(2) Where the contractor proceeds with work in dispute as to whether or not it is extra, it should be a matter of written record from the contractor to the owner as to the contentions involved and as to the basis on which the work is being done.

(3) Where there is no dispute involved, the work should only be done on the written authorization of the owner or his agent.

(4) An accurate record of all labor and materials used in connection with extra work should be kept on a separate extra work report sheet, with provision made thereon for the signature of the duly authorized agent of the owner directing the work to be done, and charged to the owner.

Lump Sum or Time and Material

Where work is performed additional to the contract, it may be handled in two ways. Either on a basis of an agreed lump sum charge or on a basis of time and material plus a percentage for contractor's profit.

We highly recommend that all work which can be intelligently priced and handled on a lump sum basis be so handled, and that the lump sum be agreed upon prior to the execution of the work, with proper acknowledgment of the work and amount involved.

Where it is impossible either through the nature of the work or the time element to definitely arrive at a lump sum price, we recommend that the work be performed on a time and material basis plus pecentage for contractor's profit.

Charges for Extra Work

In the absence of any definite agreement in the contract, we recommend that charges for extra work performed on a time and material basis be billed to the

owner in accordance with the following: *General Items of Cost.*

The general contractor shall be reimbursed in the manner hereinafter described for such of the actual expenditures in the performance of the work as are included in the following items:

(A) Wages of workmen, material, supplies, tools and appliances (as distinguished from machinery and equipment listed hereinafter), and cartage and freight required for the completion of the work in question, either as shown by the revised plans and specifications, or by written instructions, and for the installing, equipping, operating and dismantling of temporary works, plant, machinery and equipment, sheds, offices, commissary and hospital.

(B) Sub-contracts placed by owner or general contractor for material or labor or both.

(C) Rental, or its equivalent, beginning with shipment and concluding with arrival at return shipping point, at the rates set forth in attached schedule, for the general contractor's machinery and equipment, and rental actually paid by the contractor for other machinery and equipment, or parts thereof, as used in the prosecution of the work, cost of loading, unloading, shipping charges to and from the job, and ordinary repairs and replacements during use and shipment for all machinery and equipment. Rental on machinery and equipment in place at average rental and maintenance charge per schedule assigned by Associated General Contractors or general or main contract.

(D) Premiums for bonds and fire insurance, fee of Building Trades Employers' Association, expenditures for telegraph and telephone service, expressage, postage, field office supplies, permits, deposits, royalties, and other similar items incidental to the execution of the contract.

(E) Salaries of superintendents, foremen, engineers, timekeepers, clerks, expeditors, watchmen, waterboys, and all other employees in the field office of the general contractor to be pro-rated over the total number of workmen's hours daily and the proper proportion of the superintendent's, timekeeper's, watchmen's, waterboy's, etc., time charged to each item of extra work. If any of these men are giving an overdue amount of their time to any or all items of extra work then their exact time given to the extra work is to be charged.

(F) Salary allowance proportionate with time actually applied to this work for employees dividing their time between this and other work, transportation and incidental travelling charges to and from the work for the necessary field forces required in the economical and successful prosecution of the work in the procuring of labor, and in expediting production and transportation of material and equipment, and for other employees or officials of the general contractor actually incurred in connection with this work.

(G) Compensation, public liability and contingent insurance on all wages and salaries. We recommend a charge of seven per cent. of the payroll to cover these items, together with the uncovered risk.

(H) An allowance to compensate the contractor for his overhead expense. We recommend a charge of 10 per cent. on the total cost of work to the contractor to cover this item.

Credits to Owner

The owner shall receive from the general contractor the following credits:

(I) Rebates to the amount of 50 per cent. of the original billed price for all lumber and materials used in this work and delivered in good and serviceable condition to and accepted by the general contractor.

(II) Rebates to the amount of 50 per cent. of the original billed price for all perishable tools and appliances used in the work and upon completion of the contract returned in good and serviceable condition to and accepted by the general contractor.

(III) The full returned amount of any refundable deposit made and charged against this work.

To the sum of the items enumerated above, after proper credits have been given, a percentage is to be added for contractor's fee. We recommend a charge of 10 per cent. to cover this item.

GARDEN WALKS

How to Lay a Stone Path for Beauty and Service

BY H. ROGERS

Stone for paths and terraces is growing in favor with quite a number of home owners and therefore the builder is often called upon to construct such a walk and to aid him in this work the following remarks may be appreciated:

To make a good job the walk should have a proper foundation; a trench eight inches or more in depth should be made and filled in with some refuse material that will allow of quick drainage, broken stone or cinders are good but, if the building has just been completed, there will be more or less broken pieces of brick and stone lying around for removal; these can be buried for the path foundations at a saving at both ends, it gets rid of the rubbish and no material has to be purchased.

A stretched cord is the best means of keeping the lines of the path straight; for curved paths the radius is described with a cord fastened to a stake as a center.

If the garden is level it is best to give the path a slight camber to throw off the rain water but this is unnecessary if the ground slopes perceptibly across the line of the path, as then the path may be kept flat on the surface and made to continue the natural slope of the ground. To get the path level one should use a large straightedge; this is preferable to a cord which is likely to sag.

Little did England's old gardeners and our own Colonial forbears appreciate the beauty of their winding grass framed walks, made of stepping stones. There is a delightful absence of artificialness about such a path and that is the reason, perhaps, why they are being better appreciated by the people of today.

In localities where stone abounds the cost is but little for material. In other places it pays to buy the stone and have it shipped so as to get the delightful effects. Slate is now being used for this purpose to quite an extent.

The stones should be worked into more or less regular shapes, no sharp angles being allowed and when laid their edges should not be in close contact, the spaces between are filled with cement mortar or, where preferred, dirt in which the grass is allowed to grow. Today the grass which our ancestors railed about for growing between the random stone-laid terraces and paths is highly appreciated.

Where the stones can be had of nearly equal thickness throughout—as is the case where blue stone or slate is used—they may be simply laid flat upon the foundation and grouted with liquid cement. Where the stones vary much in thickness it is better to build them together like rubble work.

Whenever possible secure stones of different colors for the same piece of work as when rightfully handled a very artistic mosaic-like result can be obtained.

—*Building Age.*

BUILDING PROSPECTS CONTINUE GOOD

General satisfaction with building is evident among representative firms in the Eastern construction industry. Replies to questionnaires sent out by the Dow Service Daily Building Reports (says *Architectural Forum*) indicate that the principal retardants to a free construction market are the high cost of labor and materials and the shortage of money for commercial building purposes.

Some of the firms questioned were of the opinion that the only reason production does not exceed demand is because the fuel shortage has prevented full capacity production. Others charge that production is being held back to keep prices high in the face of growing demand.

Still others believe that there will be a reaction in demand for new buildings due to the lessening returns from rent.

Contracts that are already let for the remainder of the year are sufficient to prevent a general price slump before the opening of the 1923 season, according to the bulk of replies received. Most of those answering believed that the price peak had been reached, if no further influence was exerted upon it by the coal strike.

Replies to the question as to whether labor is at present freely available or scarce brought replies from 29 that available labor was either inefficient or practically out of the market; 61 reported plenty of labor. The greatest scarcity is apparently among bricklayers, tile layers, plasterers and some metal workers. Opinion was practically unanimous that labor liquidation would not take place before 1923 building season begins.

—*Industrial Digest.*

"MR. ROLLIN C. CHAPIN, an Eastern architect, writes of the stepback building of which several examples have recently been built in New York, as indicating a "new type of American architecture." "There is really nothing particularly new about this type of construction," comments *The Architect and Engineer*. Mr. F. W. Fitzpatrick of Chicago wrote of step-back buildings for *The Architect and Engineer* as far back as ten years ago. The time for building this type of structure, however, seems not to have arrived until recently, hence the "discovery" of a "new" American Architecture. Writing of his observations in an Eastern publication, Mr. Chapin observes:

"Probably no one who has visited New York City during the past year or two has failed to notice that a new type of skyscraper has come into being. Instead of the cut-and-dried 'scraper to which we have been so long accustomed, with its 20 to 40 stories of facade rising unbroken from the street and crowned by a huge projecting cornice, we observe that these newer buildings begin to step back from the building line at a certain height, something in the manner of superimposed blocks of diminishing sizes. These tower-like upper stories are treated in interesting variety, not one side only, but all four as a unit, and the great ugly cornice is conspicuously lacking. What a relief to at last see business buildings designed in three dimensions!

"This new type of building is the result of New York's new zoning law. This law broadly stated, operates in two ways to bring about a more harmonious development of the city. First, by its "use regulations," it segregates the manufacturing plants from the retail sections and both from the residence districts. Second, by its "height regulations," it divides the city into districts in each of which the allowable height of the street facade has a definite relation to the width of the street, varying from street width to two and one-half times the street the total height of the building, but on width. This limit is not, however, on the vertical height at the building line. Above that limit buildings may be extended to a height limited only by economical considerations, but the portions above the limiting height must not extend beyond a diagonal line drawn through the center of the street and the limiting height at the street line. Other provisions effect the height on the rears, on courts, side streets, etc. In a general way, this means that above the height limit all buildings must be contained within a pyramid whose sides have a slope of about 75 degrees. Therefore, a large building may rise to considerable height above the facade height limit, while a smaller building cannot economically be built much higher than that limit.

"It will be seen that this law has given the architect a new problem. He must use greater skill in planning in order to make it economically desirable to build to great heights, and at the same time he is given almost unlimited scope to his imagination in designing in three dimensions.

"While not a great number of buildings have been erected since this law was passed, the few that have been are so satisfactory, both economically and aesthetically, as to fully justify the law. A notable example is the Heckscher building, near Columbus Circle, designed by Messrs. Warren & Wetmore."

Mr. Chapin thinks that this style of tall building is destined to become the prototype for all American cities. He believes the idea could be applied on a smaller scale to our moderate-sized cities. It is true we need some remedy for the the oft-repeated crime of treating architecturally only the street facades of our buildings, and allowing the other sides, perhaps more conspicuous than the embellished one, to glare at us with their bare common brick surfaces, ugly signs, and what-not. Some such regulation as New York's would help to answer this need, and would do much to beautify our business sections.

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

AUTOMATIC WATER HEATERS.
C. F. Tinnermann.....5940 Arch St., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins. Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins. Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

CONTRACTORS' EQUIPMENT
Moore & Weisbrod.....229 N. 12th St., Phila.

DAMPPROOFING.
Aquabar Waterproofing Products. Perry Bldg., Phila.
Arvon Co. .....1814 Ludlow St., Phila.
Concrete Waterproof Paint Co. 829 N. 3rd St., Phila.
Contract Waterproofing Co. ..Harrison Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.
Western Waterproofing Co.Franklin Tr. Bldg., Phila.

DRAWING MATERIALS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.
Kane & Co. .....1226 N. 9th St., Phila.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank. Ornamental Iron Works.
1505 N. Mascher St., Phila.
Potts, Horace T. & Co. .....316 N. 3rd St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.

FLOOR HARDENER.
Thos. F. Gibson.....Franklin Trust Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRADING.
Kane & Co. .....1226 N. 9th St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HAULING CONTRACTORS.
Kane & Co. .....1226 N. 9th St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1026 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Mont Clare Foundry Co.,
N. E. Cor 11th and Ridge Ave., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

INSULATION.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE.
Insurance Co. of North America,
3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....531 N. 4th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LEVELS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

LIGHT IRON CONSTRUCTION.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works.
1505 N. Mascher St., Phila.

LUMBER.
Felin, Chas. F., & Co.,
Old York Road, above Butler St., Phila.
Haney-White Co. .....17th and Glenwood, Phila.
Irwin, James M., & Co. .....976 N. 8th St., Phila.
Kugler, Geo. W., & Sons Co.,
915 New Market St., Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

MARBLE MOSAIC.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

METAL LATH.
Donnelly & Co. .....531 N. 4th St., Phila.
General Fireproofing Co....512 Bulletin Bldg., Phila.
Pearce Fireproof Co.....1345 Arch St., Phila.

METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

MILL WORK.
Haney-White Co. .....17th and Glenwood, Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

OFFICE PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

ORNAMENTAL IRON.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works.
1505 N. Mascher St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

PAINTING (Plain and Decorative).
Clark, M. H. .....58th and Larchwood Ave., Phila.

PAINTS AND VARNISHES.
Truscon Laboratories.....1432 S. Penn Square, Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.

PIPE COILS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

PIPE AND PIPE FITTINGS.
Grant, Chas. J., Supply Co.,
25th and Morris Sts., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Vogel, Joseph, Co. .....Wilmington, Del.

RANGES
Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATORS.
Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila

ROAD WORK.
Croyle, Guy .....Merion Station, Pa.

ROOFING.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.
Tinney, Walter H., Co.,
63rd and Woodland Ave., Phila.

ROOFING SLATE.
Baird, A. S. .....24 S. 7th St., Phila
Chapman Slate Co. .....Bethlehem, Pa.
Emack, The John D., Co. .....Otis Bldg., Phila.

ROOFING TILE.
Baird. A. S. .....24 S. 7th St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,
Nicetown Lane and Powder Mill Road, Phila.

SAFETY GUARDS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

SAND AND GRAVEL.
Baird, A. S. .....24 S. 7th St., Phila
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co.,
24th and Callowhill Sts., Phila.
Magna Sand Co. .....139 S. 3rd St., Phila.

SEWER PIPE.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

SHEET METAL WORK.
Brinkmann Bros. .....2615 Frankford Ave., Phila.
Tinney, Walter H, Co., 63rd and Woodland Ave

SHEETROCK (Wall Board)
Pearce Fireproof Co. .....1345 Arch St., Phila.

SHINGLES (Asbestos and Asphalt).
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.

SLATE
Emack, The John D. Co. ..... Otis Bldg., Phila.

SOUNDINGS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

STAIRS (Sheet Steel).
McFarland-Meade Co.,
70th and Kingsessing Ave., Phila.

STEEL SASH.
McFarland-Meade Co., 70th and Kingsessing Ave.

STONE.
Fox Croft Quarry Co. .....24 S. 7th St., Phila.
John D'Lauro.....55 E. Mermaid Lane, Phila.

STRUCTURAL STEEL.
Adelhelm & Phillips.....1511 Sansom St., Phila.

STUCCO.
Daniel C. Sinclair.....East Lansdowne, Pa.

SURETY BONDS.
Stokes, Packard, Haughton & Smith,
434 Walnut St., Phila.

TERRA COTTA (Architectural).
Conkling-Armstrong Terra Cotta Co.,
Denckla Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

TILE AND TERRAZZO WORK.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Jannetti & Carroll.....269 S. 11th St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

TRANSITS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H.....1209 Arch St., Phila.
Warren-Knight Co.....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

VENTILATING SYSTEMS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

WALL BOARD (Sheetrock)
Pearce Fireproof Co. .....1345 Arch St., Phila.

WALL COPING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

WATER HEATERS.
Borden Stove Co. .....1026 Arch St., Phila.
Mont Clare Foundry Co.,
N. E. Cor 11th and Ridge Ave., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

WATER PAINT.
Southern, Wm. B., N. W. Cor. 12th and Spruce, Phila.

WATERPROOFING.
Aquabar Waterproofing Products. Perry Bldg., Phila.
Arvon Co. .....1814 Ludlow St., Phila.
Concrete Waterproof Paint Co. 829 N. 3rd St., Phila
Contract Waterproofing Co. ..Harrison Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.
Western Waterproofing Co.Franklin Tr. Bldg., Phila.

WHITEWASHING.
Southern, Wm. B.,
N. W. Cor 12th and Spruce Sts., Phila.

WINDOW GUARDS (Wire).
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

WIRE PARTITIONS.
Berko Bros. .....Randolph and Wood Sts., Phila
Cyclone Fence Co. .....18 S. 7th St., Phila.

WIRE WORK.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Wayne Iron Works..Commercial Trust Bldg., P

Buildings in Course of Construction---

whether large or small---should be protected by a "North America" Builder's Risk Policy. We have a new folder explaining this necessary coverage. Write for your copy.

INSURANCE COMPANY OF NORTH AMERICA

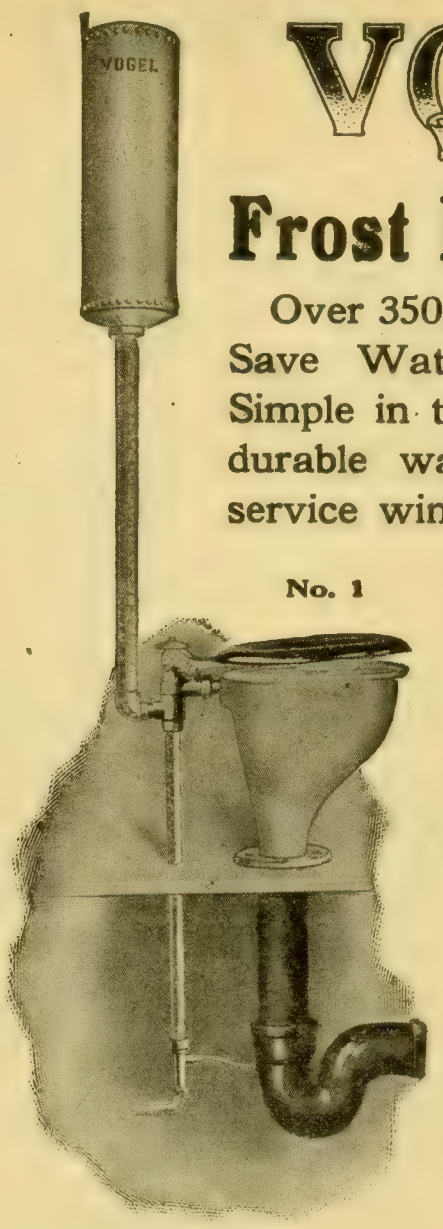
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- Enameled roll flushing rim bowls.
- Heavy brass valves
- Strong hard wood seat.
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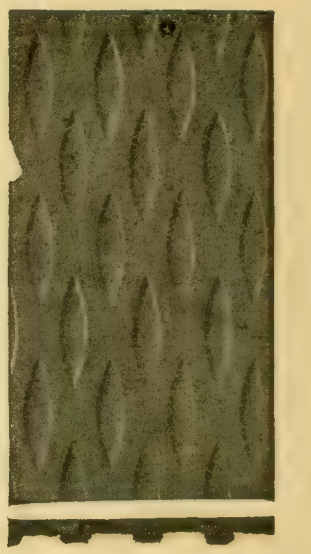
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Roofing Slate, Garden Flagging and all Slate Products

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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVII, No. 36
September 6, 1922

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors and the Material and Equipment Trades

Less than One Year
15 Cents per Copy

Richardson Products

Standard of the Country

MANUFACTURERS HEATING & COOKING APPARATUS
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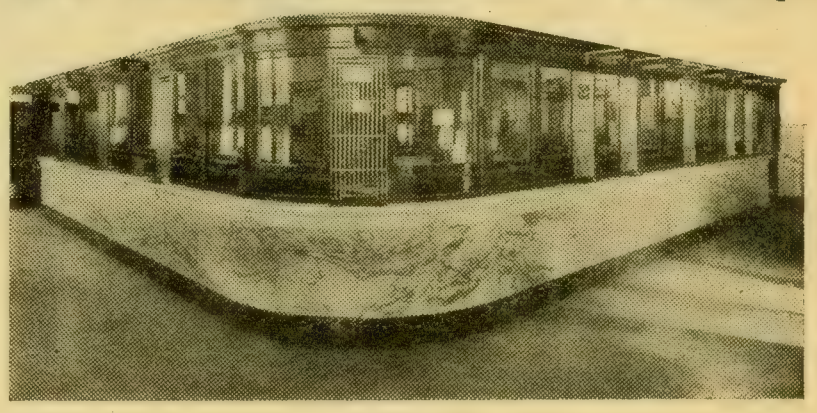
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Sturdy and Attractive

Post Office Equipment, Tables, Furniture and Special Cabinet Work

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Building Materials

Lime, Sand, Plaster, Cement, etc.

Prompt deliveries wherever—and whenever—you want. A little better service at no higher price.

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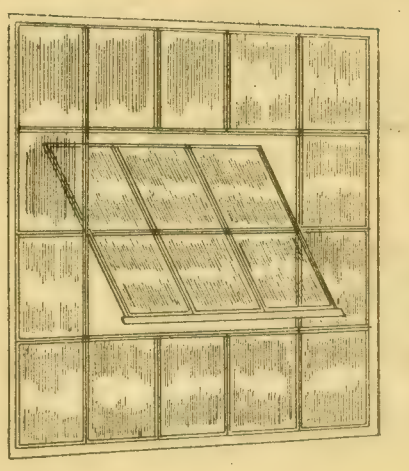
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SOLID STEEL SASH

3000 Lb. Test on Joint Before Indication of Yielding



Locked Joints. Flush Surface. Water and Weather Proof.

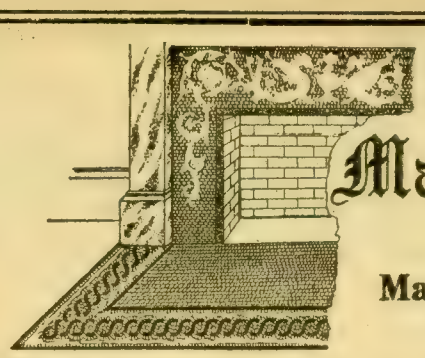
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KEYSTONE: RACE 7119



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Manufacturers and Dealers in

Marble Mosaics, Terrazzo, Tiles and Ceramics

433 SPRUCE STREET

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Manufacturers of High Grade Iron Work. Builders' Iron, Stairs, Railings, etc., Wrought Iron Gates and Fencing, Pipe Work of all Kinds—Bent and Plain, Forgings and Special Iron Work.

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Columbia 1065 - - - Park 4147-4148

Bell Phone: Market 3158 Keystone Phone: Main 5145

ROMAN MOSAIC & TILE CO., Inc.

MARBLE MOSAICS, TERRAZZO, CERAMICS, TILES

Office: 435 Green St. Factory: 432 Wallace St.

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Our Estimate will help you to win the job

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Bell Phone: Poplar 0329 Keystone Phone: Park 3047

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TILES

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PHILADELPHIA, PA.

Walnut 2174

A. S. BAIRD

Builders' Exchange Philadelphia

Genuine Fox Croft, Face and Foundation Stone

SAND, GRAVEL, SLATE, BRICK



Estimates Cheerfully Given. If it's PAINTING, See Me

M. H. CLARK

CONTRACTOR

General Painting and Glazing

58th and Larchwood Ave. Phila.

Bell Phone, Woodland 0966

O. W. KETCHAM

Manufacturer of

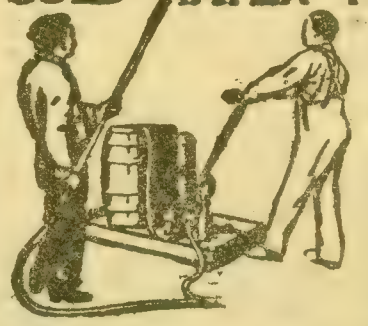
Ornamental Terra Cotta
Face Brick
Hollow Tile
Paving Brick
Roofing Tile

Philadelphia, 121-125 N. 18th St.
New York, 1170 Broadway
Washington, Home Life Building
Baltimore, Baltimore-American Bldg.

Terra Cotta Works, Crum Lynne, Pa.

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COLD WATER PAINTING—



Whether applied by brush or machine, if done by our corps of trained artisans you are sure to get the best work at the lowest possible cost. Better see us today. "Let there be light."

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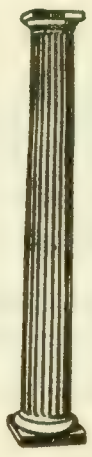
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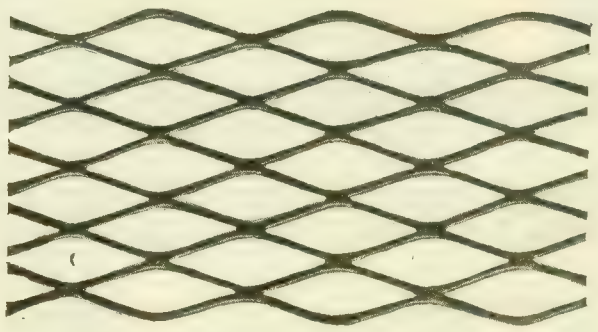
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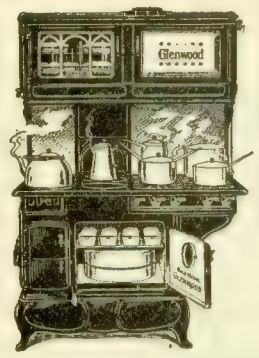
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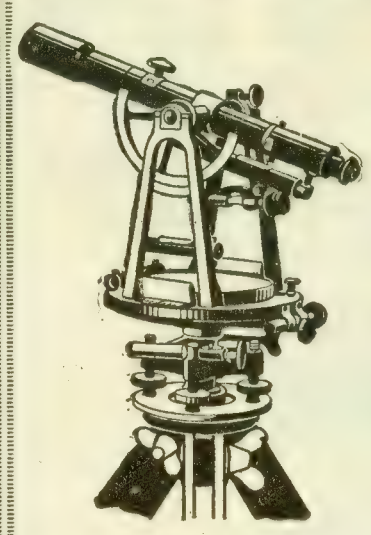
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As The Editor Sees It

THE HOUSE-BUILDING INDUSTRY AS SEEN BY AN ENGINEER

More Co-operation Needed Among Architects, Engineers, Builders and Realtors—Are we Coming to Shop-Fabricated Chimneys, Whole Bathrooms, and What Not?

BY W. H. HAM, M. AM. SOC. C. E.

General Manager, The Bridgeport Housing Corporation, Bridgeport, Conn.

The fundamental problems in building houses can be simply referred to as: (1) Securing building lots, (2) financing, (3) plans for houses, (4) labor and materials for construction. Everyone of these main items is affected by lack of co-ordination, and each should have most careful study by trained experts in the closest co-operation with real estate men, landscape architects and with bankers, building and loan association officials and manufacturers. There should be the closest co-operation with the best architects in the country for development of proper house plans. Engineering skill should be thoroughly developed in the problem of building houses with all possible simplification and standardization of the labor and materials.

Lot Determines Type of House

Taking the first item, land division into house lots: Most of our cities have established a standard lot with street frontage varying from 16 2/3 ft. to 50 ft.; these lots vary in depth from 100 ft. to 150 ft. When the land is thus divided, the type of house is automatically established and in most cities repitition of type with minor changes in exterior and interior becomes the prevailing form which the house takes.

There are three distinct types of single house which stand out as important in the great building era just ahead of us. In the cities which are thoroughly built up and lots are subdivided into small frontages from 16 2/3 ft. to 25 ft. row houses will and should prevail. This house is built with party walls and has openings only at front and back except those on corner lots.

Immediately the question of whether a city has alleys providing a service to the rear arises. Alleys have their serious objection. The history of the row houses teaches us that several methods of avoiding the alleys have been in use in some of the older cities for a long time and, in my opinion, all alleys should be eliminated.

Proper Homes for Narrow City Lots

The street front of the house should be formal with a service entrance minor in appearance to the main entrance; and the rear of the house should be developed for use of the tenants. It should be developed for use both summer and winter, so as to have complete use of the lot area in the rear. I would sugest a sun parlor built on the rear of the house leading to a garden, however small in area. This layout would apply to all of the houses built on lots 20 ft. or over in street frontage.

Smaller houses built on the lots from 16 2/3 ft. to 20 ft. are handicapped by lack of space for proper room division and, in most cases, have been used for a house with a kitchen-living room at the rear. My feeling is that the minimum depth for proper subdivision of lots is 20 ft., and that some special form of building should be used where division is into smaller lot areas.

The Detached House

The second type of single house which has a very large and important place in the building program is the single six-room cottage type, built on separated lots, usually with from 30 ft. to 50 ft. of street frontage. In our smaller cities where land values have not advanced, this is the most important house for future consideration.

Streets that are thoroughly built up with houses having a frontage of from 30 to 50 ft. have little in front of the which can lend to the individuality of the family except the architectural treatment of the house itself, and it is my opinion that the grounds of such houses should be developed with a view to the neighbors' grounds, so as to harmonize

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the whole street frontage into one continuous planting area.

The introduction of the piazza on the front of the house in most cases is wrong. Here again, the formal entrance with a minor or diminutive porch sufficient only in area to accommodate visitors for a brief period, and the complete development of the rear lot into private garden, and a sun porch where the exposure is correct, or a side porch for reaching the proper exposure, would be very much better than a continuous row of piazzas, so often built with clumsy incorrect architectural lines, disfiguring to the architectural development of a street.

History of houses in America would indicate that the piazza is of recent origin, and that the terrace overlooking the garden in the rear has many examples where values have been retained for over a century. The French home knows no other layout. English gardens are the accepted thing. The American piazza is passing and those who are building for future values should recognize this and either build the "living-out" room or sun porch at the side or rear of the house. When this is done the whole landscape of the area lends itself to more complete and simple treatment.

Rear gardens are private personal enclosures and should be enclosed with hedge, fence or wall, depending upon the exposure and the kind of land. In this garden can be grown the perennial and annual flowers, some small garden vegetables, vines and dwarf trees. In the front of the house on the lawn flowering shrubs, and, where no nuisance from smoke obtains, dwarf evergreens. Street trees complete the planting. We have then a whole city divided as a shrubbery garden in front of the houses and flower gardens and small vegetable gardens in the rear.

Placing the Garage

So far, nothing has been said of the automobile and its garage. In the city of Bridgeport 2000 automobiles stand out without any garage at all, principally for the reason that there is no plan made for location of a garage on the house lot and there is insufficient area for a driveway at the side of the house, the regulation calling for 5-ft. clearance from lot line, unless two adjoining owners combine many houses cannot have a garage at all.

In laying out the house lot of the future the garage is exceedingly important and should be considered thoroughly. The one-car garage can be built very economically and sufficiently complete for the storage of a car. It can be heated with the house if built adjoining the house itself. The architect should dictate the form of building, but many successful simple, flat-roof structures have been built. These simple buildings can carry lattices or vines and become a part of the house without any disfiguring effect, if their placing is carefully planned in advance.

In the more pretentious buildings the tendency toward building the garage as part of the house is more marked and there is no doubt whatever but that the introduction of the same principle in the small house will prevail because of the economy and simplicity of the building and the elimination of an outbuilding inferior in quality to the house which it disfigures.

The two-car garage really does not naturally accompany the small house, but has similar characteristics to the single-car space and can be very well treated in connection with the house itself. The most economical entrance, of course, is directly from the front. Where the land area is large enough the entrance from the rear has been successfully developed and should be considered.

Dividing the Front and Rear of the Lot

I believe there should be a division between the front or public part of the lot and the rear or private part; and many different types of division should be considered. Among the simplest is the lattice which carries vines, the wall which also can carry vines on both sides and the simple fence or hedge. If the lattice is used, an archway in the lattice can be arranged so as to have the entrance to garage inconspicuous and a part of the landscape work.

Out-House Storage Facilities

The great American home of the past generation has many references in it to the woodshed which was an active part of the home life of the country people. This was a storage space for the fuel used and every American boy of the past generation had some controversy with his father in the woodshed. With the use of coal for heating and storage of this material in the cellar, there is very much less demand for a space outside of the house for storage than in the old-time country homes, but this demand is not entirely eliminated and there should be a space set side for the storage of children's toys, accumulated rubbish (which is to be taken away presumably by the city collection department) and the variety of household necessities most conveniently stored in some definite space where they will neither clutter up the back yard nor disfigure the formal front of the home.

One very simple arrangement which has been successful is to develop a clothes yard behind a lattice between the house and the garage. The garage is placed with its front on the same line as the

(Continued on page 578)

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Flat House, Forty-eighth and Walnut sts., Philadelphia. Architects, Neubauer and Supowitz, 929 Chestnut street, Philadelphia. Owner, name withheld. Brick, stone, steel and concrete, 4 stories, 90x108 feet, slag roof, hardwood floors, roof ventilators, steam heat, electric light, metal lath, tile and marble work, fire tower. Plans in progress. Architect will take bids in two weeks.

Apartment Houses (8), Pine street, forty-eighth to forty-ninth streets. Architects, Simon and Simon, 249 South Juniper street, Philadelphia. Owner, Nathan Raidman, 5130 Walnut street, Philadelphia. Brick, steel and concrete, 4 stories, 50x100 feet each, slag roof, hardwood floors, electric light, tile and marble work. Plans completed. Owner is taking sub-bids.

Store Building, 1122 Walnut street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, 23x105 feet, slag roof, steam heating, electric lighting, plate glass. Plans in progress.

Stores (4), and Office, Thirty-seventh and Irving streets, Philadelphia. Architects. Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, name withheld. Brick, stone, steel and concrete, 2 stories, 17x73 feet, slag roof, electric lighting, metal bulks. Plans in progress.

Warehouse, (alts. and add.), 814 Passyunk Avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Harry Kimmelman, 227 Poplar street, Philadelphia. Bricks, 2 stories, 17x18 feet, slag roof, pine floors. Plans completed. Ready for bids.

Store, (alts.), 1310 North Fifty-second st., Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. New front, carpentry, millwork, interior alterations, plumbing, heating, electric work. Plans in progress. Architect will take bids in a few days.

Theatre, (alts.) 4910 N. Broad street, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, Logan Auditorium, on premises. Brick, stone, (cut) structural steel, carpentry, millwork, hollow tile, painting, glazing, hardware, dampproofing, iron work, bond, marble and terrazzo, metal lath, (heating and plumbing repairs), plastering, electric work. Architects taking bids due September 7th at noon.

Theatre and Store Building, Front and Huntingdon streets, Philadelphia. Architect, Private plans. Owner, name withheld. Brick and steel, 2 stories, 72x104 feet, slag roof, cement and pine floors, metal lath, iron work, demolition, hot water heat, electric light, tile and marble work. Bids due September 8th.

Residence (alts.), 246 West Evergreen Avenue, Chestnut Hill, Philadelphia. Architect, John Graham, 10 South Eighteenth street, Philadelphia. Owner, Henry Bell, Jr., care of Architect. Plastering, carpentry, millwork, stone work, painting, glazing, slate roof, tile work, (heating, electric work, and plumbing, reserved). Architect taking bids due September 7th.

Store and Moving Picture Theatre, Sixty-third and Woodland Avenue, Philadelphia. dArchitect, H. Childs Hodgens, Inc., 130 S. Fifteenth street, Philadelphia. Owners, Marcus A. Benn and Stanley Co., 1218 Market street, Philadelphia. Brick, limestone and steel, 2 stories, 62x100 feet, asphalt roof, cement and maple floors, metal lath, roof ventilators, metal ceilings, waterproofing, iron work, floor hardener, bond, tile, marble and terrazo work. Architect taking bids due September 7th.

Wading Pool and Shelter, Sunshine Playground, Sixth and Christian street, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, C. H. Warburton, 584 City Hall, Philadelphia. 1 story, 35x20 feet, shingle roof, cement floor, parquetry, millwork, painting, sodding, bond, iron fences. Owners taking bids due September 12th at noon.

Funfield Recreation Centre, Twenty-second and Sedgley avenue, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of Recreation, Department of Public Welfare, B. H. Warburton, 595 City Hall, Philadelphia. Brick, cut stone, granite, steel and concrete, 2 and 1 stories, slag roof, 275x48 feet, cement, tile and yellow pine floors, (plumbing, heating and electric light, separate bids), metal lath, rolled steel doors, hollow metal doors, ornamental iron work, steel work. Owners taking bids due Sept. 12th at noon.

Supplies, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Chlorine apparatus, steel sash and doors, chimney for headquarters building, heating boilers for same building. Owners taking bids due September 12th at noon. Inquire, Room 796.

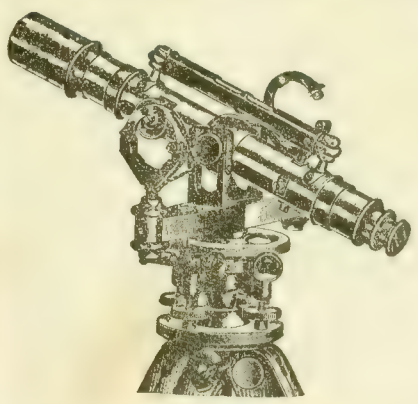
Misscellaneous Work, Second and Luzerne streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owner, Department of Public Health, C. Lincoln Furbush, M. D. 584 City Hall, Philadelphia. Installation including all necessary equipment, pipings, fittings, etc., of Spirometer, etc., floor lamp, steel cases, and construction of roads and new cement corridor floors. Owners taking bids due September 8th at noon.

Electrical Work, Byberry, Philadelphia. Architect, P. H. Johnson, 1713 Sansom st., Philadelphia. Owner, Department of Public Health, Bureau of Hospitals, C. L. Furbush, M. D., 584 City Hall, Philadelphia. Electrical work, underground conduit system, fixtures, lamps, etc. Owners taking bids due September 8th at noon.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Owners taking bids due September 8th at noon at 216 City Hall.

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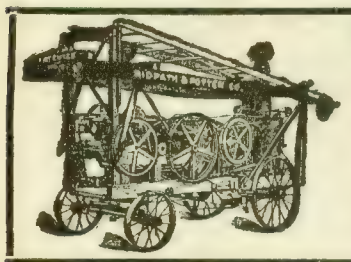
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Residences (29), Jackson street, South of Princeton avenue, $116,000. Architect, Edward S. Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, James W. Orr, Bustleton avenue and Knorr street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 43 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

Residences (6), South side Tulpehocken street, East of Baynton, $37,000. Architect, private plans. Owner, R. A. O'Donnell, Broad and Chelten avenue, Philadelphia. Brick, 2 stories, 15x46 feet, hot water heat, electric light, slag roof, oak and pine floors. Owner will build.

Apartment House, Forty-third and Chestnut streets, Philadelphia, $150,000. Architect, Richard C. Loos, 2218 Chestnut street, Philadelphia. Owner, name withheld. Brick, Indiana limestone or terra cotta, 4 stories, 85x125 feet, slag and slate roof, hardwood, composition and mineral floors, electric lighting, (3) electric elevators, roof ventilators, metal weather strip, laundry equipment, iron work, structural steel, hollow metal doors, hollow metal skylights, tile and marble work, steam or hot water heating. Architect and William I. Greenfield, 4616 North Broad street, are taking sub-bids. Plans on file at both addresses.

Apartment House, Twelfth and Berks streets, Philadelphia, approximately $85,000. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, Louis Cohn, 417 Christian street and 1904 North Twelfth street. Brick, steel and concrete, 3 stories, will contain 3 stores and 14 apartments, slag roof, hardwood floors, dumb waiters, roof ventilators, metal ceilings, plate glass, iron work, fire tower, metal build, hollow metal skylights, tile and marble work, electric lighting, hot water heating, plumbing. Architect and owner are taking sub-bids.

Store (alts.), 3526 Germantown avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, B. Swanich, 3519 Germantown avenue, Philadelphia. Brick work, cement floors, plate glass, mill work, painting, electric work, metal bulks. Owner is taking bids.

Sales and Service Building, Southeast Corner Broad and Thompson streets. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Joseph J. Greenberg, lessee, Philadelphia, care of Nash Motor Co., 901 North Broad street, Philadelphia. Brick, stone, steel and concrete, 5 stories and basement, 75x160 feet. Plans in progress. Architect selected.

Warehouse, Southwest Corner Eightieth and Laycock avenue, $20,000. Architect, private plans. Owner, J. M. Kennedy, Jr., 406 South Van Pelt street, Philadelphia. Brick, 1 story, 50x150 feet, slag roof, steam heat, cement floors. Owner will build.

Residence, North side Dakota street, West of Fifty-first street, $11,200. Architect, private plans. Owner, David Sloan, 2061 North Sixty-second street, Philadelphia. Stone, 3 stories, 27x43 feet, 1 story, 6x6 feet, slate roof, tile work, hot water heat, electric light. Owner will build.

Residences (21), Stores and Residences (7), Melville street, Baltimore and Larchwood avenues, $152,500. Architect, private plans. Owners, Bobb & Steinman, 6232 Cedar avenue, Philadelphia. Brick, 2 stories, 16x30½ feet, 11x22½ feet, 16x52 feet, 16x60 feet and 16x40 feet, 11½x20 feet, slag roof. Owner will build.

Residences (33), Eighth street, Ruscomb to Lindley avenue, $171,000. Architect, private plans. Owner, M. J. Best, 4829 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 15x36 feet and 15x43 feet, slag roof, hot water heat, electric light, tile work. Owner will build.

Residences (6), East side Bryn Mawr avenue, South of Woodbine, $114,000. Architect, private plans. Owner, T. F. Reilly, Fiftieth and City Line, Philadelphia. Stone, (4) 4 stories, 27x47 feet, (1) 3 stories, 43x33 feet, and (1) 3 stories, 58x44 feet, slate roof, hot water heat, tile work, electric light. Owner will build.

Residences (14), West side B street, Rockland to Eleanor, $63,000. Architect, private plans. Owner, Joseph A. Blair, 222 East Rockland street, Philadelphia. Brick, 2 stories, 15x50 feet and 16x32 feet, hot water heat, electric light, tile work. Owner will build.

Residences (24), Marshall street (14), West side, South of Fisher avenue, and (10) East side, North of Duncannon avenue, $132,700. Architect, private plans. Owner, Louis Mark, 2820 North Twenty-first street, Philadelphia. Brick, 2 stories, 15x27 feet, 11x10 feet and 15x38 feet, slag roof, hot water heating. Owner will build.

Residences (10), 201-19 Lindley avenue, Philadelphia, $43,500. Architect, private plans. Owner, George J. Bauerle, 4348 North Eighth street, Philadelphia. Brick, 2 stories, 15x38 feet, slag roof, hot water heat, electric light. Owner will build.

Residence, Southeast Corner Eleventh and Westmoreland streets, $12,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Jacob Kret, 3312 Germantown avenue, Philadelphia. Brick, 2 stories, 24x23 feet, 16x29 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (28), Fishers avenue and Eighth street, $4,800 each. Architect, private plans. Owner, W. E. Rees, Eighth and Lindley avenue, Philadelphia. Brick, 2 stories, 15x45 feet ,slag roof, hot water heat, electric light. Owner will build.

Residences (2), 1033-35 Hellerman street, Philadelphia, $4,500 each. Architect, private plans. Owners, Rose Building Co., 2616 Bridge street, Philadelphia. Frame, 2 stories, 18x40 feet, electric light, hot water heat. Owner will build.

Residence, South side Hortter street, East of Ross street, $4,500. Architect, private plans. Owner, H. Kendrick, 1885 Sharpnack street, Philadelphia. Brick, 2 stories, 18x38 feet, 16x12 feet, hot water heat, electric light, oak and pine floors. Owner will build.

Residences (2), Jackson street, South of Unruh street, $3,600 each. Architect, private plans. Owner, Louis Laib, 6638 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof. Owner will build.

Residences (6), 248-58 East Queen street, Philadelphia, $3,500 each. Architect, private plans. Owner, William C. Wetherstine, 124 East Upsal street, Philadelphia. Brick, 2 stories, 18x33 feet, slag roof, hot water heat, electric light. Owner will build.

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Residences (25), 5610-32 and 5611-35 Pentridge street, $4,000 each. Architect, private plans. Owners, R. D. & J. M. Wilson, 5023 Woodland avenue, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hot water heat, electric light. Owner will build.

Building, 1620 Vine street, Philadelphia. Architect, Max A. Bernhardt, 717 Walnut street, Philadelphia. Owner, Dr. B. R. Simons, Tenth and Market streets, Philadelphia. Architect taking bids due September 5th.

Settlement House, 1330 to 1334 Frankford avenue, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, Lutheran Mission Society of Philadelphia, Witherspoon Building. Brick, cut stone and steel, 3 stories, 73x42 feet, slag roof, concrete, cement and maple floors, metal lath, terrazzo, iron work. Architect taking bids due September 7th.

Stores and Residences (4), Residences (17), Fifty-fourth and Warrington avenue, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Charles E. Biddle, on site. Brick, 2 stories, 17x40 feet and 15x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Will take sub-bids soon.

Garage, 4143-45 Frankford avenue (rear), $3,000. Architect, private plans. Owner, Otto Schuman, Jr., 4147 Frankford avenue, Philadelphia. Brick, 1 story, 65½x16 feet, 16x34 feet, slag roof ,cement floor, hot water heat, electric light. Owner will build.

Residence (add.) and Garage, 2417 North Fifty-fifth street, Philadelphia. Architect, Edwin A. Yeo, 225 South Sydenham street, Philadelphia. Owner, John M. McCurdy, 3334 North Sixteenth street, Philadelphia. Hollow tile and stucco, 1 story, 19x24 feet, slag and sshingle roof, cement floors, hollow tile (heating, lighting, plumbing reserved), iron work. Architect taking bids due September 7th.

Building, 1624 Arch street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick, granite and artificial limestone, 2 stories, 144x24 feet, slag roof, maple floors, metal ceiling, iron work, bond, rolled steel sash, tile work, metal lath, electric lighting, demolition. Architect taking bids due September 8th.

Residences (26), 715-39 East Price street and 714-38 East Price street. Owner, J. N. Mitchell, 4 South Farragut street, Philadelphia. Brick, 2 stories, 19x30 feet, slag roof, hot water heat, electric light. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building, Cherry and Lambert streets, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owners, Y. W. C. A., Eighteenth and Arch streets, Philadelphia. Brick, reinforced concrete and steel, 5 stories and basement, 72x81 feet, slag roof, cement and pine floors (heating, plumbing, electric work reserved), elevators, metal lath, tile work, marble, kalamein doors, terra cotta. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Church, Eighth and Luzerne streets, Philadelphia. Architect, Frank R. Watson, 1211 Chestnut street, Philadelphia. Owners, St. Simeon's Lutheran Church, on premises. Stone and brick, 1 story, 70x56 feet, slate roof, pine floors, rolling steel partitions, bond, metal lath, steam heating, electric lighting. Contract awarded to H. John Homan, 1701 Chestnut street, Philadelphia.

Academy, City avenue and Haverford road, Overbrook, Philadelphia . Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, Academy of the Sacred Heart, 1835 Arch street. Brick, cut stone and steel, 3 stories, 174x42 feet, (4) wings, 51x39 feet, 92x59 feet, 89x42 feet and 39x88 feet, slate and asbestos asphalt roof, concrete, oak and composition floors, hollow tile, waterproofing, terra cotta, iron stairs and work, bond, kalamein doors, rolled steel sash and skylights, tile and marble, metal lath (heating, plumbing, electric work and elevators separate bids). Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Church, Twenty-sixth and Tasker streets, Philadelphia $150,000. Architect, Charles Schaef, 2203 South Twenty-fourth street, Philadelphia. Owners, St. Aloysius' Roman Catholic Church, Rev. Henry J. Steinhagen, on premises. Steel, brick, cut stone, 116x63 feet, shingle-slag roof, pine floors (heating, plumbing, electric work reserved), metal lath, bond, terra cotta, ornamental iron work. Contract awarded to Edward Fay & Son, 2 South Mole street, Philadelphia.

Machine Shop, Pattern Storage and Pattern Shop, Ontario and Janney streets, Philadelphia. Architect, C. E. Wunder, 1415 Locust street, Philadelphia. Owners, Alfred Box Co., Inc., 813 North Front street, Philadelphia. Brick and steel, 30x110 feet, and 1 story, 90x32 feet, slag roof, cement and wood block floors, hollow tile, metal lath, rolled steel sash, hollow metal doors, iron stairs. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

Building (alts. and add.), 112 South Twentieth street, Philadelphia. Architect, private plans. Owners, Harold H. Happold, Widener Building, Philadelphia. Brick, cut stone and steel, 3 stories, 10x15 feet, tin roof, mineral

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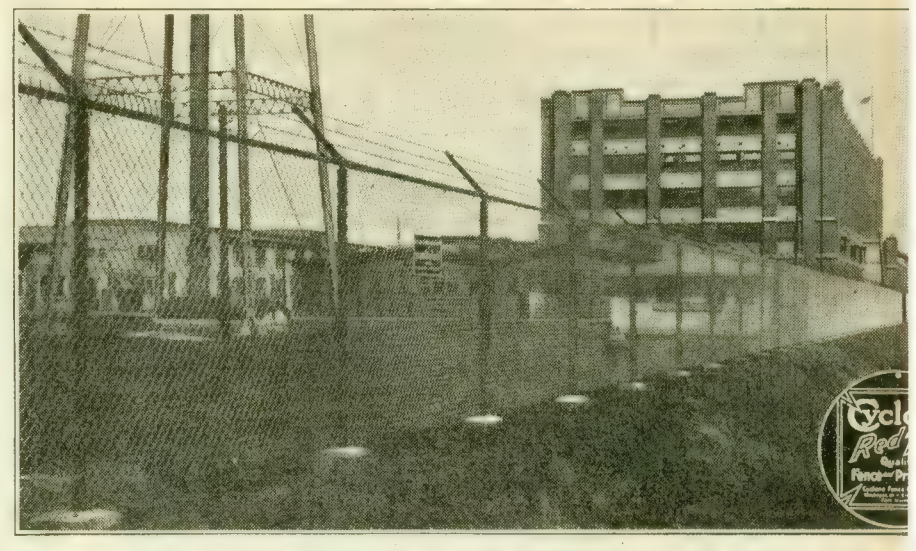
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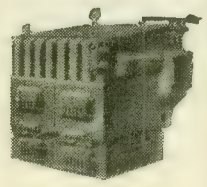
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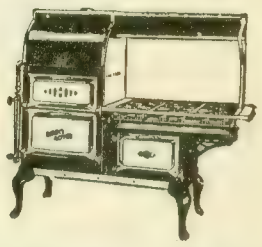
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and pine floors, steam heat, electric light, marble work, dumb waiters, ornamental iron work (heating, electric work and plumbing separate bids). Contract awarded to Robert M. Milne, 5318 Addison street, Philadelphia.

Residence (alts. and add.), 3940 Spruce street, $16,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Sylvan Josephs, on premises. Brick, cut stone, stucco, limestone, cement and maple floors, metal lath, tile and marble work, bond, ornamental iron work (heating, plumbing and electric work reserved), mill work, carpentry, plastering, skylights, painting, cold water painting. Contract awarded to Frank G. English, 1610 North Carlisle street.

Building (add.), 912 Walnut street, Philadelphia. Architect, A. E. Wightman, Heed Building, Philadelphia. Owners, Hastings & McIntosh Co., on premises. Brick and steel, 3 stories, 48x24 feet, slag roof, maple floors, electric light, rolled steel sash, iron work, heating extension. Contract awarded to A. P. Fraim, 319 Market street, Philadelphia.

Buildings (alts. and add.), 1718-20 South Ninth street, $15,000. Architect, D. J. Pappas, 1240 Reed street, Philadelphia. Owners, Brothers of Order of St. Augustine, care of architect. Brick, 2 stories add., general alterations. Contract awarded to Lorenzo Anastasi, 1012 Mountain street.

Stores (alts.) (3), Southeast Corner Nineteenth and Norris streets, $4,500. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, Louis Jaffe, Nineteenth and Norris streets, Philadelphia. Steel work, lowering floors, cement work, plastering, composition floors, brick work, mineral stucco, carpentry, heating, electric light, metal lath, tile and marble, flush bulks, metal ceilings, plastering, glazing, painting. Contract awarded to Frank & Kaiser, 1522 South Sixth street, Philadelphia.

Bank Building, (alts. and add.), Thirteenth and Market streets, $90,000. Architect, Edgar V. Seeler, 101 South Juniper street, Philadelphia. Owners, Colonial Trust Co., William F. Kurtz, president, premises. Brick, limestone and steel, 1 story, mezzanine and basement, 40x80 feet, slag roof, cement floors, steam heat, electric light, tile and marble and iron work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Residence (alts. and add.), Logan and Morris streets, Germantown, Philadelphia. Architect, Addison H. Saverty, 1309 Locust street, Philadelphia. Owner, John M. Graham, Jr., on premises. Hot water heat, electric lighting, plumbing, metal lath, tile work, slate and slag roof, oak floors, new porches and bay windows, painting, plastering. Contract awarded to Henshaw Brothers, 634 West Johnson street, Germantown.

Residence, Meadowbrook avenue and Steed street, Chestnut Hill, $13,000. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owner, Leah H. Rau, West Chestnut avenue, Chestnut Hill. Stone, 3 stories, 37x26 feet and 16x7 feet, slate roof, steam heating, electric lighting, hardwood floors, tile and marble. Contract awarded to Ralph C. Borthwick, 8018 Germantown avenue.

Store and Apartments (alts.), 716 South Fifty-second street, Philadelphia, $6,500. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, H. Feldsher, on premises. Brick work, structural steel, carpentry, mill work, heating, plate glass, carpentry mill work. Contract awarded to I. Gold, 2028 South Fifth street, Philadelphia.

Store (alts.), 1116 Walnut street, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, T. J. Bailey, on premises. Carpentry, mill work, plastering, composition floor, tile work, rolled steel sash. Contract awarded to R. J. Whiteside & Son, 2125 Wallace street.

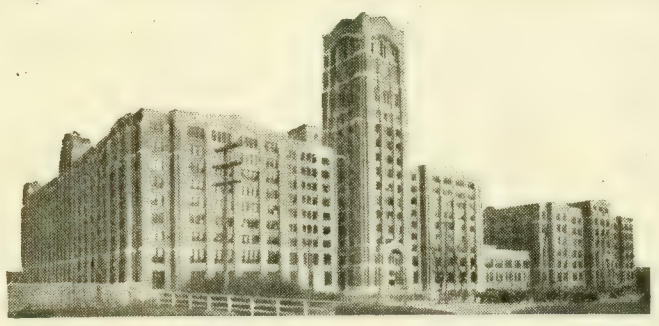
Revolving Door Entrance, 400 Chestnut street, $3,200. Architects, Charles L. Hillman & Son, 400 Chestnut street, Philadelphia. Owner, Agent Walter Wood, on premises. Stone and marble work, carpentry, painting, glazing. Contract awarded to Lawrence R. Hurley, Bulletin Building, Philadelphia.

Residences (25) (12) Rand street, North of Tioga, and (13) Malta street, North of Tioga, $4,000 each. Architect, private plans. Owner, Joseph J. Funston, 6429 Beechwood street, Philadelphia. Brick, 2 stories, 16x34½ feet, slag roof, oak and pine floors, hot water heat. Contract awarded to Funston & Co., 6429 Beechwood street.

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Residence, 29 West Pelham road, Philadelphia, $4,000. Architect, private plans. Owner, O. E. Mertz, on premises. Brick, 2 stories, 15x16 feet, slag roof, oak and pine floors. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Residence (alts. and add.), 5307 Locust street, Philadelphia, $3,500. Architect, private plans. Owner, Myer Beck, on premises. Brick, 2 stories, 14x9 feet, slag roof, electric work. Contract awarded to J. Coplan, 1218 North Seventh street, Philadelphia.

Garage, South side Bright street, East of State road, Philadelphia, $2,950. Architect, private plans. Owner, H. O'Donnell, 3907 Barton street, Philadelphia. Brick, 1 story, 20x40 feet, slag roof, cement floors, electric light. Contract awarded to Daniel J. Gercke, 6938 Tulip street, Philadelphia.

Store Building (alts.), 3733-35 Walnut street, Philadelphia, $4,000. Architect, private plans. Owners, Jerrihian Brothers, 3731 Walnut street, Philadelphia. General interior alterations. Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

Residences (11), West side Lawrence street, South of Grange avenue, $4,000 each. Architect, private plans. Owners, Sertz & Heilman, 414 Brown street, Philadelphia. Brick, 2 stories, 14x29 feet, 11x11 feet, hot water heat, electric light, oak and pine floors. Contract awarded to Charles Sinn, 5518 North American street.

Building (alts.), 3914 Locust street, Philadelphia, $4,000. Architect, private plans. Owners, St. Mary's Church, on premises. General alterations. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Residence, West side Claridge street, North of St. Vincent, $6,200. Architect, private plans. Owner, Edward T. Priskett, 3311 Windell avenue, Philadelphia. Frame, 2 stories, 28x40 feet, shingle roof, hot water heat. Contract awarded to A. C. Kurtz, 2103 North Fourth street, Philadelphia.

Residence (alts. and add.), 6001 Lansdowne avenue, Philadelphia. Architect, private plans. Owner, D. A. Smith, on premises. Brick, 2 stories, 24x18 feet, slag roof, hot water heat, electric light. Contract awarded to Felix Claro, 5313 Malcolm street, Philadelphia.

Residences (23), Fifty-seventh and Florence avenue, Philadelphia. Architect, private plans. Owner, Benjamin Herman, 522 South Sixtieth street, Philadelphia. Brick, 2 stories, 16x33 feet, 12½x12½ feet, slag roof, hot water heat, electric light, oak and pine floors. Contract awarded to Samuel J. Bobb, 508 Bailey Building, Philadelphia.

Residence, Northumberland street, South of St. Vincent, $3,400. Architect, private plans. Owner, R. D. Janney, 2935 North Fifteenth street, Philadelphia. Frame, 2 stories, 28x30 feet, hot air heat, electric lighting. Contract awarded to A. C. Kurtz, 2103 North Fourth street, Philadelphia.

Building (add. and alts.), 1541 Butter street, Philadelphia, $3,000. Architect, private plans. Owner, Harry Rose, 4635 North Eleventh street, Philadelphia. Brick, 1 story, 16x8 feet, 16x11 feet, slag roof, electric light. Contract awarded to Nemerosky & Shapiro, 1906 South Fourth street.

Building (alts.), 923 Locust street, Philadelphia, $2,500. Owners, Franklin Paper Company, 1001 Market street, Philadelphia. General alterations. Contract awarded to Charles R. Davis & Son, 1500 Ellsworth street.

Residence, West side Hegerman street, North of Vincent street, $4,450. Architect, private plans. Owner, Louis Cacchio, Tacony, Philadelphia. Brick, 2 stories, 16x46 feet, hot water heat, electric light. Contract awarded to A. Mignone, 7746 Ditman street, Philadelphia.

Residence, Southwest Corner Palmetto and Shelmire streets, $4,500. Architect, private plans. Owner, Paul Pherisk, 6025 Rising Sun avenue, Philadelphia. Frame, 2 stories, 27x47 feet, shingle roof, oak and pine floors. Contract awarded to Louis Ahlers, Jr., 4433 Salmon street.

Building (add. and alts.), 142 West Wyoming avenue, $2,500. Architect, private plans. Owner, Henry A. Barth, 4701 Rising Sun avenue, Philadelphia. Brick, 2 stories, 15 feet 8 inches x 14 feet, slag roof, yellow pine floors. Contract awarded to Henry W. Brightly, 1216 North Thirty-fourth street, Camden, N. J.

Garage, 2826 Ruth street, Philadelphia, $3,000. Architect, private plans. Owner, Hugh Carberry, 2825 Kensington avenue, Philadelphia. Brick, 1 story, 20x87 feet, slag roof, cement floors, electric lighting. Contract awarded to E. J. Gilbert, 3345 "D" street, Philadelphia.

Garage and Storage Building, North side Upland street, West of Forty-seventh, $4,000. Architect, private plans. Owners, B. Hendle Lumber Co., care of builders. Brick, 2 stories, 38x20 feet, slag roof, cement floors. Contract awarded to Seeds & Steinmetz, 117 South Alden street.

Residence, 7236 North Tabor street, Philadelphia, $4,000. Architect, private plans. Owner, Aug. Glazier, 1646 North Fourth street, Philadelphia. Frame, 2 stories, 16x37 feet, shingle roof, electric light. Contract awarded to M. Glaser, 1238 North Lawrence street.

Garage, 1835 East Russell street, Philadelphia, $3,000. Architect, private plans. Owner, Joseph Tiernan, on premises. Brick, 1 story, 42x73 feet, slag roof, cement floors. Contract awarded to Clayton & Clayton, 3012 Hartville street.

Building (alts.), Southeast Corner York road and Nedro avenue, $9,500. Architect, private plans. Owner, C. Vetter, Southeast Corner Fifth and Gorgas streets. Carpentry, mill work, plastering, painting, glazing, alterations. Contract awarded to A. Dunlap, 7223 Oak Lane, Philadelphia.

Garage, 1215 East Berks street, Philadelphia, $2,500. Architect, private plans. Owners, Laurel Motor Repair Co., care of builder. Brick, 1 story, 20x142 feet, slag roof, cement floors. Contract awarded to Charles J. Spencer, 722 Beach street.

Ice House, Stable, Garage and Office, Sixth and Annsbury streets, $9,000. Owner, William F. Kohler, Twenty-first and Allegheny avenue, Philadelphia. Brick, 1 story, ice house, 20x17 feet, stable 21x23 feet, garage 42x23 feet, and office, 17x20 feet, slag roof, steam heat, pine and cement floors, electric lighting. Contract awarded to Henry P. Schneider, 3713 Old York Road.

Residence (alts.), Southeast Corner Logan and Morris streets, $6,000. Architect, private plans. Owner, John Graham, Jr., on premises. General interior alterations. Contract awarded to Hanshaw Brothers, 634 West Johnson street.

Garage, East side Warnock street, North of Venango street, $4,500. Architect, private plans. Owners, McCray & Hunter, 3525 Germantown avenue, Philadelphia. Brick, 2 stories, 22x12 feet, and 1 story, 30x50 feet, slag roof, cement floors, electric light. Con-

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tract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Building (alts. and add.), 4053 Baring street, Philadelphia, $2,500. Architect, private plans. Owner, H. Stahl, 5600 Thomas avenue, Philadelphia. Brick, 1 story, 18x12 feet, slag roof, yellow pine floors. Contract awarded to Charles Titman, 2438 South Fourth street, Philadelphia.

Building. (alts. and add.), 153 South Sixtieth street, Philadelphia, $2,200. Architect, private plans. Owner, A. Kasofsky, on premises. Brick, 1 story, 15x12 feet, slag roof, electric lighting. Contract awarded to Sol Kravitz, 535 South Fifty-seventh street, Philadelphia.

Armory (alts. and add.), 4111 Mantua avenue, Philadelphia. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Armory Board of State of Pennsylvania, Benjamin W. Demming, secretary, Harrisburg, Pa. Brick and steel, 2 stories and basement, tin roof, granolithic and composition floors, bond, wire work. Contract awarded to George H. Evans, 100 North Thirteenth street, Philadelphia. Plumbing, N. Connolly, 1404 North Eighteenth street. Heating, Charles E. Monday & Co., 1318 Olive street, Philadelphia. Electric, Walker & Kepler, 531 Chestnut street.

Residences and Stores (6), Woodbine avenue and Yewdall street, $36,500. Owner, M. N. Pollock, 4831 North Twelfth street, Philadelphia. Brick, 2 stories, 16x90 feet, 16x55 feet, slag roof, hot water heat, electric light. Contract awarded to Joseph Freedman, 4831 North Twelfth street, Philadelphia.

Residence and Store (add.), 2860 Richmond street, $2,400. Architect, private plans. Owner, J. Loev, on premises. General alterations and additions. Contract awarded to A. Rubin, 1127 Thompson street, Philadelphia.

PENNSYLVANIA
Construction News

School, Ashbourne, Pa. Architect, Herbert C. Wise, 1412 Chestnut street, Philadelphia. Owners, School District of Cheltenham, E. B. Scarborough, secretary, Elkins Park, Pa. Brick, cut stone and steel, 2 stories, 147x77 feet, slag roof, cement and maple floors, safety treads, iron work, bond, metal lath, marble work. Owners taking bids due September 12th at noon. Deposit, $15.00. Refund, $12.00.

Boys' Academy, Merion, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, Merion, Pa. Stone, fireproof, 4 stories, 192x45 feet, wing 70x45 feet, slate roof. Plans in progress. Too early for details.

Preparatory School, Malvern, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Augustinian Fathers, Villa Nova, Pa. Stone, brick, steel and concrete, new building and remodeling of present buildings. Preliminary plans in progress. Too early for details.

Mission Church, Royersford, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sacred Heart R. C. Church, care of Rev. Charles L. McCarren, Royersford, Pa. Stone, 1 story, 100x34 feet, slag roof, pine floors. Revised plans in progress. Architect will be ready for new bids in ten days.

Residence, Merion, Pa. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owner, name withheld. Hollow tile and plaster, 2 stories, 26x40 feet, slate or tile roof ,hardwood floors, warm air heating, electric lighting, plumbing. Preliminary plans in progress.

Residence, York road, above Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Herman Harting, 1356 Jerome street, Philadelphia. Stone, 3 stories, 30x50 feet, shingle roof, electric lighting, hardwood floors. Plans in progress. Architect will take bids in two weeks.

Store, Office and Apartment (alts. and add.), Lewistown, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owner, Walter Fosnot, on premises. Brick, 3 stories, 30x60 feet, slag roof, pine floors, vapor heat, electric light. Revised plans in progress.

Residence, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, J. L. Hoffman, Harrisburg, Pa. Stone, stucco, 2½ stories, 25x36 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will be ready for bids this week.

Office Building, Center Square, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Conestoga Traction Co., W. N. Griest, 15 East Orange street, Lancaster, Pa. Granite and terra cotta, 12 stories, 60x90 feet. Sketches in progress.

Apartment, Lodge Rooms, Stores and Moving Picture Theatre, Elizabethtown, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, L. O. O. M., David Kreider, Elizabethtown, Pa. Brick and steel, 3 stories, 192x76 feet. Plans in progress.

Residence, Pottstown, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Lester L. Fisher, 1006 Queen street, Pottstown, Pa. Brick, 1½ stories, 30x26 feet, asbestos roof, oak floors, hot water heat, electric light, tile work, plumbing, concrete foundations, mill work. Plans in progress.

Residence (alts.), Wynnewood, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Thomas J. Minnick, care of architect. General interior and exterior alterations. Preliminary plans in progress. Too early for details.

Residence (alts. and add.) to Apartment, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Dr. W. D. Twitmire, 130 East Chestnut street, Lancaster. Brick, 1 story, 30x42 feet, slag roof, hardwood floors, hot water heat, electric light. Architect ready for bids

Residence, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Hungaria Reformed Federation of America, care of architect. Brick, cinder block, 2½ stories, 29x41 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids.

Bungalow, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Jacob Wagner, 401 Fifth avenue, Royersford, Pa. Brick and stone, 1½ stories, 26x30 feet, asbestos roof, yellow pine floors, stone foundations, hot air heat, electric light, plumbing, mill work. Architect taking bids.

Residence and Garage, Swarthmore, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, James M. Irvine, Twenty-fifth and Tasker streets, Philadelphia. Stone, 2½ and 1½ stories, 41x41 feet and 15x23 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, bond. Architect taking bids due September 7th.

Twin Residence, Essington, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, Frank De Marco, Second and Wanamaker streets, Essington, Pa. Brick, 2 stories, 32x38 feet, slag roof, pine floors, hot water or pipeless heater, electric lighting. Owner taking bids.

Twin Residence, Reading, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, J. J. Becker, Boyertown, Pa. Hollow tile and stucco, 2½ stories, 30x40 feet, composition roof, pine floors, hot air heat, electric light, tile work. Owner will take bids.

Garage, Boyertown, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, J. J. Becker, Boyertown, Pa. Frame and stucco, 1 story, 19x12 feet, composition roof, cement floor, electric light. Owner will take bids.

Residence, Second street, Harrisburg, Pa. Architect, private plans. Owner, Charles W. Strayer, Green and Forster streets, Harrisburg. Brick and concrete, 2½ stories, 32x48 feet, slate roof, electric lighting, tile work. Owner will build.

Sewer, Delaware County, Pa. Owners, Borough of Prospect Park, Delaware County, Pa. Furnishing and construction about 3,000 feet of 12-inch vitrified pipe sewer. Owners taking bids due September 1st at 8 P. M. Plans and specifications may be had from A. F. Damon, Post Office Building, Sixty-ninth street.

Fence, Chester, Pa. Owners, City of Chester, Chester, Pa. Furnishing and construction of 900 feet of 7-foot high wire fence. Owners taking bids due September 5th at 5 P. M.

Store and Auditorium, Bywood road, West of West Chester pike. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owner, Terence Smith, 3819 Hamilton street, Philadelphia. Brick and steel, 2 stories and basement, 45x100 feet, slag roof, pine and maple floors, hot water heat, electric lighting. Architect taking bids due September 11th.

Residences (12) (first of operation of 500), Conshohocken, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, name withheld. Brick, frame and brick, frame and concrete block, 1½, 2 and 2½ stories, average 25x25 feet, asphalt slate roof, electric lighting and fixtures, hot water

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heat, pine floors. Architect ready for bids and sub-bids.

Garage, Abington, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Lester B. Kohler, care of architect. Frame and brick, 1 story, 20x21 feet, slag roof, cement floor, electric light. Architect is ready for bids.

Locker House, Edge Hill, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, North Hill Country Club, Edge Hill, Pa. Construction or size not determined. Preliminary plans being prepared.

Pennsylvania Contracts Awarded

Tribute House, Merion, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Merion War Tribute House, Merion, Pa. Stone and steel, 1 story and basement, 88x35 feet, wing 72x40 feet, slate roof, maple and cement floors, safety treads, leaded glass, bond, tile and terrazzo work, electric lighting, hot water heating, demolition. Contract awarded to H. E. Grau Co. ,1707 Sansom street, Philadelphia.

Residence, Penfield, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Harry Strassheim, care of architect. Hollow tile and stucco, 2½ stories, 37x35 feet, shingle roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to D. Ridgway Evans, Penfield, Pa.

Residence, Merion, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Howard F. Park, 513 Market street, Philadelphia. Stone, 2½ stories, 35x125 feet, slate roof, oak floors, hot water heat, electric lighting, tile work. Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Residence, Morrisville, Pa. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Mr. Bigler, care of architect. Brick, hollow tile, 2 stories, 32x90 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Karno Smith Const. Co., Broad Street Bank Building, Trenton, N. J.

Church, Eighteenth and State streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, State Street U. B. Church, Rev. Rhoads, Harrisburg, Pa. Stone, 1 story and basement, 70x90 feet, tile or slate roof, maple floors, steam heat, electric light, metal lath, roof ventilators, skylights, waterproofing, ornamental iron work. Contract awarded to S. W. Shoemaker & Son, 421 Walnut street, Harrisburg, Pa.

New Jersey Construction News

Store, Woodbury, N. J. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, Harry Polsky, Broad and German streets, Woodbury, N. J. Brick and steel, 1 story, 40x80 feet, slag roof, hot water heating, electric light, marble work, plastering. Plans in progress.

Boiler Room, North Broad street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owners, Castania Dairy, North Broad street, Trenton, N. J. Brick, 1 story, 47x32 feet, slag roof, concrete floors, electric light, rolled steel sash. Architect ready for bids.

Residence, West Collingswood, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Graham Lucas, care of architect. Frame, 1½ stories, 24x40 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Apartment House, North Collingswood, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Louis Blase, care of architect. Brick, 2 stories, 40x65 feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

Residence (alts. and add.), Haddonfield, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, H. W. Bottomley, on premises. Frame, 2½ stories, general interior alterations. Plans in progress.

Residence, Morrisville, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owner, care of architect. Frame, 2½ stories, 26x36 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Collingswood, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Trenton, N. J. Owner, H. Manheimer, Colomon Mfg. Co., care of architect. Brick, stucco, 2 stories, 48x17 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. **Plans completed.**

Residence, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, George Heck, care of architects. Frame, 2 stories, 36x25 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans completed.

Sunday School, Allentown, N. J. Architects, William Glack & Son, St. Regis Theatre Building, Trenton. Owners, Presbyterian Church, care of Mr. Disbrow, on premises. Brick, frame, 2 stories, 50x60 feet, slate roof, hardwood floors, electric lighting. Plans in progress.

Residence, South Orange, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, H. Herring, on premises. Frame, 2½ stories, 27x28 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

School, Assembly Room, Gymnasium and Swimming Pool, Trenton. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owners, Trenton School Board, R. C. Belville, secretary, Trenton. Brick, steel, fierproof, 2 stories and basement, 25 rooms, tile roof, hardwood floors (heating, plumbing and electric work reserved), hollow tile, metal lath, safety treads, roof ventilators, tile and marble work, rolled steel skylights, iron stairs, ornamental iron work, waterproofing, dampproofing. Owner will be ready for bids September 15th. ($500,000.)

Residence (alts .and add.), Flemington, N. J., $12,000. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, Mr. P. I. Craig, on premises. Brick and stucco, 2 stories, porches, tile roof, hardwood floors, electric light, tile work, new plumbing, general alterations. Owner is subletting.

Pumping Station, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, Commissioner Feel, Trenton Water Works, Trenton, N. J. Concrete, stone, 1 story, 40x80 feet, slate roof, concrete floors, electric light. Architect taking bids due September 8th.

Church, West State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Christian Science Church, Mrs. Bonham, care of architect. Brick and frame, 1 story, 40x80 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, ornamental plaster. Architect taking bids due September 16th.

Residence, New Brunswick, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, Irving Laurie, on premises. Frame and stucco, 2½ stories, 30x70 feet, Spanish tile roof, hardwood floors, electric light, tile and marble work. Architect taking bids due September 10th.

Storage Building, Trenton, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owners, County of Mercer, care of architects. Brick and steel, 2 stories, 73x77 feet, slag roof, concrete floors, electric light, rolled steel sash, fire doors, waterproofing and dampproofing, floor hardener, iron stairs. Architects ready for bids due September 12th.

Masonic Temple, Gloucester, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Cloud Lodge, No. 101, F. and A. M., care of architects. Brick, steel, 2½ stories, 50x200 feet, slag roof, hardwood and tile floors, vapor heat, electric light, metal lath, roof ventilators, waterproofing, dampproofing. Architects taking bids due September 9th.

Residence, Merchantville, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owner, Mrs. M. C. Bottomley, care of architect. Brick, 2 stories, 38x26 feet, 20x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect will be ready for bids next week.

Store and Office (alts.), 315 Broadway, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Mr. M. Futernick, 215 Broadway, Camden, N. J. Store front, plate glass, slag roof, hardwood floors, electric light, tile work, roof ventilators, rolled steel skylights. Owner ready for bids.

Residence, Montclair, N. J. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Masson Realty Co., Montclair, N. J. Hollow tile and brick, 3 stories. Architect taking bids due September 11th at noon.

Power Plant, State Normal School, Trenton, N. J. Architects, Guilbert & Betelle, Newark, N. J., and Arnold H. Moses, Camden, N. J. Owners, Office of the Commissioner of Education, State House, Trenton, N. J. Brick, limestone, cut stone and steel, 1 story and basement, 82x32 feet, wing 24x36 feet, pump house, 12x26 feet, slag roof, concrete floors, waterproofing, iron work and stairs, steam heating, electric lighting. Owners taking bids due September 7th at 3 P. M.

Chelsea Hotel, Atlantic City, N. J. Architects, Carrere & Hastings, and Shreve, Lamb & Black, New York City. Owners, Chelsea Hotel, Atlantic City, N. J. Architects taking bids due September 12th at noon.

New Jersey Contracts Awarded

Bank Building, King's Highway and Chestnut street, Haddonfield, N. J. Architects, Simon & Simon, 249 South Junipes street, Philadelphia. Owners, Haddonfield Safe Deposit & Trust Co., Lawrence Appleton, Haddonfield, N. J. Brick, cut stone, steel and terra cotta, 1 story, 46x32 feet, slag and composition roof, cement and oak floors, hot water heating, electric light, marble and terrazzo work, metal lath, rolled steel skylights, rolling steel doors, waterproofing, bond, ornamental iron work. Contract awarded to Frank V. Warren, 132 South Seventeenth street, Philadelphia.

Church (alts. and add.), Plainfield, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Sacred Heart Roman Catholic Church, Rev. J. Bowlen, Mt. St. Mary's College, Plainfield, N. J. Brick, 1 story and basement, irregular size, slate roof, hardwood floors, heating extension, electric lighting, leaded glass, interior alterations. Contract awarded to Charles Smith, Fords, N. J.

Bridge, over Jackson street, Camden, N. J. Architect, private plans. Owners, P. & R.,

Atlantic City R. R. Co., Reading Terminal. Concrete and steel, waterproofing, will require 5,000 tons of stone, 3,000 tons sand, 150 tons of reinforcing steel (cement furnished by owner). Contract awarded to C. T. Bower, Tulip and Somerset streets, Philadelphia.

Comdort Station, Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton. Owners, City of Trenton, care of Mr. Page, City Hall, Trenton. Brick, 1 story, 45x16 feet, tile roof and floors, electric light. Contract awarded to Harry Barnett, 401 Johnston street, Trenton.

Twin Residences, Trenton, N. J. Architects, William Slack & Sons, St. Regis Theatre Building, Trenton. Owner, Peter Schlicker, Jr., care of architects. Brick and stone, 2½ stories, 36x60 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Builder Schlicker, Trenton, care of architects.

Miscellaneous Construction News

Work and Supplies, Brandywine Shoal Light Station, Delaware Bay, Del. Owners, care of Superintendent of Lighthouses, Philadelphia, Pa. Furnishing stone and building breakwater. Owners taking bids due September 8th. Information on application.

(Continued from page 568)

house, space between the garage and the house being paved and screened from the street with a lattice covered with vines, and from the garden with the same form of lattice work. Entrance to the rear of the house being through the gate in the lattice, this open space, either covered or not, is open area for storage and becomes very useful with the small home on a limited land area.

The Two-Family Type House

The third type of house which has a very important influence on the home life of the people, and is in many cities a very important part of the building program, is the two-family house. Usually, it is arranged with flats having individual entrances for each family. Such a building should not be placed on land less than 50 ft. wide and should be very carefully studied for individuality of entrance and separation of the families, and, of course, should be built with sound-proof floors and double equipment throughout.

The advantage of the two-family house is not so apparent as in previous years because of the increase in the cost of building, lowering the value of the two-family property as an investment, and the great demand for money in other forms of investment. This brings the average citizen into touch with many forms of security in which his money can be invested to very much better advantage.

However, the type still prevails and should have the closest attention according to its requirements. The two-family house with its two garages, its two gardens two clothes yards and two piazzas as now built leaves very little on the lot, if 50x100 ft., which can be used for anything except the smallest kind of a flower garden. My own opinion is that this type of building has so many disadvantages that it should be discouraged.

Single-Family Type Best for Most Conditions

The American home should be the single type of house, either in row type or individual, where land values are low enough to allow each family to have sufficient land for its own land, and where land values have advanced beyond this figure the multiple amily house or many varieties recently developed should be considered.

The Multiple-Family House

It is this multiple-family house that requires the most careful study by the engineering profession, architects and financiers, and we could and probably will work out a suitable form of ownership, which reaches down the scale to our lowest paid industrial workers. My own personal belief is that we will very soon arrive at a solution of this part of the problem by the development of a form of ownership of the land and buildings. I believe this form of ownership will have in it a means of progression from every limited early part ownership through the period of accumulation of savings to the fee simple ownership of one of the other types of homes, without loss in investment; but this is a great problem and not a part of this article. I only refer to it here as applying to that area of land in our cities which has advanced beyond the value which is suited to occupation by the individually-owned house, either of the row type or the individual type.

The Financial Problem

Referring to the financial problem before us in our great building program ahead, I stated in a paper read before the Massachusetts State Chamber of Commerce that our financing of homes was in practically the same situation as our agricultural financing in New England. In our great industrial cities, and in the small ones as well, the banker who handles the money accumulated by the people will say to you, "I am not interested in real estate; it does not pay." The manufacturer will say the same thing, especially if he has had any experience in the housing of his employes. The merchant will say, "I am not interested."

We have then before us a problem in which the three fundamental dictators of industry, the banker who finances everything, or guides its finances by his advice and influence outside of his own field, the manufacturer who creates wealth with which to finance, and the distributor of the manufactured articles, have all three abandoned the building field because it does not pay. It often leaves the financial side of the building homes in the hands of those who are determined to take every advantage of the tight money situation.

The reason for this lack of interest on the part of the banker is very simple. The tremendous number of securities on the market available, in small denominations, for investment of everybody's money, is in direct competition with the building of homes; and the careful analysis of financing back of these securities is so much better than that which has guided the money side of the home-building problem that the house investment, even with the present high rents, is at best a very poor one.

The great problem of financing homes should have the closest attention of bankers, manufacturing executives and commercial retailers. Every one of these influences should be brought into the home finance problem in such a way as to take a fair share of the burden of the investment, bad as it is, and I would go so far as to say that every bank should develop within its organization the means of obtaining thorough classified information on the subject of financing of homes and have this information available for all of its customers.

Every manufacturing concern in an industrial community, in my opinion, should set aside from its earnings each year a certain amount of money, based upon its payroll, for investment in some form of building fund as, for example, the paid-up shares in building and loan associations or for investment through trust companies and banks in mortgages or in an operating housing company. Every successful retail store should set aside a certain percentage of its earnings for investment in homes, in some form or other, for it is the clerical force in the stores which finds the home problem one of the most serious to contend with.

Engineering Studies to Be Basis of Financing

It is very evident that the financial development of the great industries of this country have learned to depend upon scientific, thoroughly studied engineering reports and no great industry has ever gone forward without careful engineering investigation. The housing problem is a great and important industry and should have its engineering side fully developed so as to bring home to banking interests, manufacturers and merchants exact facts which are now lacking, and which are hidden behind a great deal of doubt as to values; and, what is worse than doubt of values, is the present morality of the building trades. The engineering profession from its foundations is based upon integrity. Facts are facts with the engineer and are so recognized in the financial world because of this fundamental schooling back of the engineering

profession, and it is for this reason very largely that financial houses turn to the engineer for an examination of the case before any investment is made.

The engineer is needed in connection with house planning for all kinds of homes, with the introduction of water, gas, electricity, heating and many other mechanical devices which are to be installed in the homes of the future. The engineer has been called upon to lay the street mains, sewer, water and gas and determine in advance the required sizes for development of the city, proper material for a long-time use and regulations governing the rights and privileges of citizens who are land owners in connection with these public services.

The great question has always been: Why should the engineer stop at the point 5 ft. outside of the wall of the building and allow the remainder, which is the most intricate and quite as important a part of the whole intricate system of planning, to be carried out by other men, not especially trained.

"What is the architect's function," is naturally the next question. The architect's training at the schools of architecture in America and those abroad, where many of our best architects are sent for their finishing courses, is to provide a form of beauty with the structure that they build. The best architects recognize this and employ engineers, either in their own offices direct or through consultation with engineering firms, to carry out that portion of their work which is manifestly within the engineering field.

But the small house, which is our great problem, the individual home for the average Amercan, as often been left without either architect, engineer or financier. The great question, of course, is who is to pay for this professional service. The individual small house cannot have this individual care. It must have the study made by groups, and it is this group study of the problem that will command the closest interest of the engineer.

What the Engineering Problem Consists Of

The engineering problem in connection with the building of ordinary houses, for the great class of home buyers who must of necessity purchase on the installment plan, has just begun to be studied; and a few examples of successful results where the engineering work has been done with care warrants the conclusion that the engineer is primarily suited to the construction end of the problem, and that the architect must dictate the style and provide the design. The architect of high standing cannot give his time to the construction items and is not properly trained to carry out this part of the work.

It is only when the engineering profession takes hold of the problem as it has the great problem of transportation, factory construction, sanitation of cities and road building that the lending institutions will look upon housing investments with favor.

When the work is properly co-ordinated, simplified and standardized those of us who have studied deeply into the subject anticipate that many improvements in methods of construction will prevail, a better relation with labor developed, and a more harmonious result obtained.

I venture to prophesy that a very large part of houses of the smaller type will be shop fabricated in the same manner as our structural steel is today fabricated. I look for a very large field of industry to grow up in this very item of fabrication of parts of houses.

Shop Fabrication of House Parts

Among the items which will readily yield to shop fabrication with a good deal of economy are the doors and frames, which I venture to say will be fabricated complete in a factory, probably local, in a manufacturing process so as to be shipped complete ready for use. The same is true of window frames, sash, screens, including trim inside and out, cornices of the buildings in accordance with the architect's requirements and cut, if you please, with a cutter of his own design. Various mouldings, to suit his good taste, will be made and sold complete ready for installation including all members outside of the square building line. Dormer windows and interesting bay windows, having the best detail of architectural study, can be manufactured in the shop complete ready for installation at tremendous saving in cost.

The foundations of buildings should be made in a foundry, cast hollow, shipped to the job complete read for erecting with the manufacturer's truck and setting derrick, to be erected by the manufacturer in an incredibly short time. These hollow castings, of concrete, can be filled with local heavy materials from the building site, for the added weight required. By the shop-fabricated method, the chimney of the average house can be built of reinforced concrete, including the flue lining of tile, and erected in much the same manner as a heavy telephone pole is now, handled by men familiar with this class of work and with a simple, proper, strong rigging attached to a motor truck.

Let us draw on our iaginations a little further and say that the plumber cooperates and allows his portion of the work to be simplified, standardized and fabricated at his shop so that all parts of the piping system are cut to measure by machine and fitted when carried to the job, because a templet is used in the layout and standard equipment planned for. Carrying this rather difficult matter of imagination to its logical conclusion would lead to the construction of the bath room itself from the floor to a low wainscot line in a shop of foundry, and this completed part of the building transported and erected by a simple derrick arrangement, much as a piano is handled, for the weight will be comparable and the size a little larger, thus making of this intricate and troublesome portion of the home construction a product of shop manufacture, available at a tremendously decreased cost.

Fabrication is a word made forceful by the engineering profession. I have on the authority of one of the largest lumber manufacturers in New England an estimate of the possible saving by fabricating such items as doors and trim, windows with their detail and equipment of approximately 50 per cent. in cost. I have no doubt that the whole house will yield at least 33 1/3 per cent. by the fabricated method and, at the same time, furnish the opportunity for the mechanic to work continuously in doors, under shop conditions, and become a fixed citizen in a community instead of a wandering workman dreading the completion of the job for fear of a gap in employment, and the necessary sacrifices which his family will have to make during this interval. Rain and snow will have no retarding influence when we fabricate our buildings indoors, ship them to the job and erect them with properly trained men.

National Builder.

WHY AN ARCHITECT?

An architect does more than build a house. He provides a setting for a personality. He interprets the occupants in terms of their dwelling. He puts four walls and a roof around the atmosphere of a family. Every client is an individual study. The architect sells not only experience and skill; primarily he sells service. He looks after the physical details of building; his roofs do not leak, his paints do not peel, his chimneys do not smoke. He also studies the habits and characteristics of his client, and seeks above all to provide a home in which the owner will be comfortable, happy, satisfied. Beyond the technical side of his profession he will aim to produce those intangible values that make all the difference between a family barracks and a home in which a family will abide content.

To attain this result the architect draws on his expert acquaintance with building

problems in all their multiplicity. Technical skill and artistic gifts combine to make the architect, and it would be strange indeed if a man possessing these qualities could not save his client from many mistakes of judgment and many unwise expenditures. He draws plans, prepares specifications, obtains bids, writes contracts, supervises construction, makes sure the owner gets what he pays for. When the completed building is "delivered" the owner may know that his materials are "right," his house well designed, his workmanship "sound." About one owner in three assumes the architect has no interest in the site, that the dimensions of the lot and the owner's limit of cost are all he cares to know. On the contrary, the architect studies the site. Often he has topograhical survey made with foot contours. He helps the owner place the building on the lot with reference to the views it may command, its distance from the street, the opportunity for lawn and gardens. He advises as to the style of architecture that fits the location and the suitability of the materials to be used, whether brick, stone or timber. He suggests the arrangement of rooms in terms of the site, so that vulnerable points will not be exposed to freezing blasts and living rooms will not be shut away from sunlight and outlook, so that the approach will be effective and the general arrangement convenient. Then the architect is ready for his rough preliminary drawings. After these have been studied he will make the final and complete drawings, the working plans and specifications.

* * *

Four times in five the owner tells the architect what he wants, and how much he will spend, and the architect replies that the two are not compatible. Whenever the owner fixes an absolute ultimate of expenditure the architect has no option but to help his client to scale his building accordingly. Here two facts usually emerge: that a small house is more difficult to design than a large one, if it is not to be merely commonplace, and that an able architect can do remarkable things in the way of elimination and yet keep the essentials. Moreover, experience brings prescience so that the architect will help the owner to avoid those after-thought "extras" and those expensive deviations from the original plans that always run fast into money. He will try to locate every fixture and foresee every detail so that his first plans will direct all operations to the driving of the last nail.

Without an architect the owner is in the hands of his builder or contractor. Doubtless the average contractor means to be honest, but without supervision he is exposed to temptation and it is to his advantage to skimp. Unless the owner is an expert and has time to devote to supervision the builder may use materials below specifications and get 'away with it.' Are there pitchy knots in the lath? They mean yellow spots in the plaster after awhile. Punky framing lumber with many edges is not strong enough. Such terms as "shift" and "slash" mean nothing to the tyro, but if the wrong material is used the floors will splinter up. An owner once noticed that his specifications called "only" for "extra" singles, and added "No. 1." Therefore he roofed his house not with the best shingles, but with the worst. Shingles are graded down from "extra," or knotless; to "clear," with no knots in their exposed portions; and "extra No. 1," with knots anywhere. Clapboarding is "clear" or "extra;" which should be used? Flooring is "clear," "factory," and "No. 2;" which shall you choose? How shall you select your interior finish from the scores that will be urged on your attention? One famous building firm will employ only three crews of plasterers, men who are sure to build "for keeps," whose work will not be "all out" in ten years. Asbestos shingles may be laid in a half-dozen ways producing as many effects and corresponding differences in cost. A certain architect wrought patiently and tactfully to convince his well-meaning but deluded client that a house should have no clapboarding, but block siding; the owner since has expressed his gratitude. An architect will avoid vexing delays. The plumbing and the heating may be in process of installation and the electricians at work before the carpenters finish. Competent supervision means both that the tradesmen shall be punctually on the premises and that the several crews shall not get into each other's way.

As the building business is organized today the contractor and the owner are bound by a standard form of agreement which provides that the contractor shall follow the architect's plans and fulfill the General Conditions of the contract. These General Conditions also are cast in the standard form of the American Institute of Architects. There are some forty-five articles in all, covering all manner of contingencies, defining carefully the rights and duties of all the parties, and treating of documents, drawings, claims, insurance, payments, liens, sub-contracts, corrections, and a hundred other topics. Contractors usually make estimates or submit competitive bids, and here again the owner may well accept the advice of his architect. For estimates vary greatly. Often the highest is really the cheapest. One bidder is accurate and careful; another merely takes a chance with no genuine knowledge back of his proposals; a third may be a shyster who intends to parcel out the job among a score of sub-contractors from each of whom he will exact a profit. Many large contractors today maintain extensive organizations and are well educated and efficient men. But they can hardly be expected to take such an individual interest as does the architect who first conceives the plan, then sketches his vision, and finally watches its development in terms of wood and stone.

The architect almost invariably saves his client the full amount of his fee. He avoids waste of space, time, and materials, and all three mean money. He is not merely a superior sort of watchman, yet he makes sure that what is done is well done. Work well done is permanent, vastly reducing the cost of upkeep.

Choose your architect with care. Then trust him. When he tells you that plain things live and gewgaws do not survive believe him. When your views differ be willing to "be shown." Remember he is trained to apply skilled intelligence to achieve results that fit your needs.—*House Beautiful.*

Repitition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.

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The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.

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All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.

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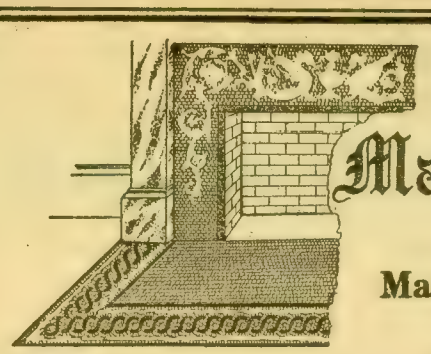


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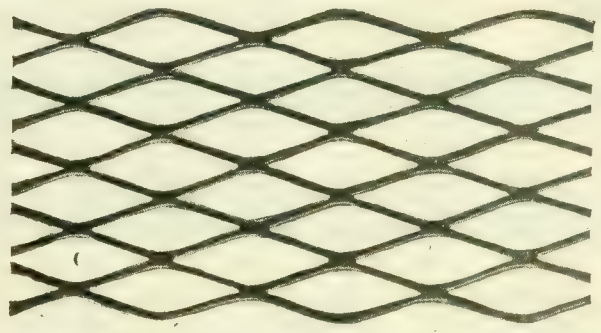
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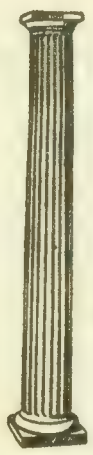
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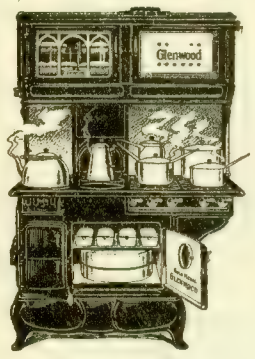
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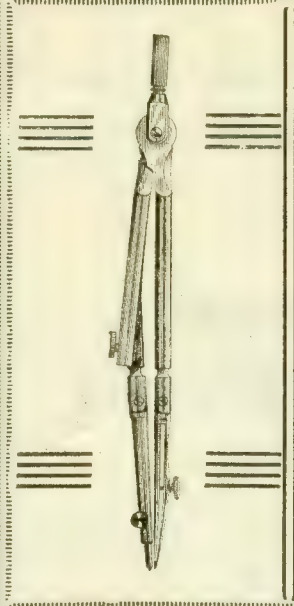
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As The Editor Sees It

WHAT IS ZONING?

Zoning is the application of common sense and fairness to the public regulations governing the use of private real estate. It is a painstaking, honest effort to provide each district or neighborhood, as nearly as practicable, with *just such protection* and *just such liberty* as are sensible in that *particular district.* It avoids the error of trying to apply exactly the same building regulations to every part of a city or town regardless of whether it is a suburban residence section, or a factory district, or a business and financial center. It fosters civic spirit by creating confidence in the justice and stability of the protection afforded.

Zoning gives everyone who lives or does business in a community a chance for the reasonable enjoyment of his rights. At the same time it protects him from unreasonable injury by neighbors who would seek private gain at his expense.

Zoning regulations differ in different districts according to the determined uses of the land for residence, business, or manufacturing, and according to the advisable heights and ground areas.

But these differing regulations are *the same for all districts of the same type.* They treat all men alike.

Why Do We Need Zoning?

Someone has asked, "Does your city keep its gas range in the parlor and its piano in the kitchen?" That is what many an American city permits its household to do for it.

We know what to think of a household in which an undisciplined daughter makes fudge in the parlor, in which her sister leaves soiled clothes soaking in the bathtub, while father throws his muddy shoes on the stairs, and little Johnny makes beautiful mud-pies on the front steps.

Yet many American cities do the same sort of thing when they allow stores to crowd in at random among private dwellings, and factories and public garages to come elbowing in among neat retail stores or well-kept apartment houses. Cities do no better when they allow office buildings so tall and bulky and so closely crowded that the lower floors not only become too dark and unsatisfactory for human use but for that very reason fail to earn a fair cash return to the individual investors.

"Live and let live" is a better motto for the modern city than the savage one of "dog eat dog."

It is this stupid, wasteful jumble which zoning will prevent and gradually correct. We must remember, however, that while zoning is a very important part of city planning, it should go hand in hand with planning streets and providing for parks and playgrounds, and other essential features of a well-equipped city. Alone it is no universal panacea for all municipal ills, but as part of a larger program it pays the city and the citizens a quicker return than any other form of civic improvement.

Zoning Protects Property and Health

Suppose you have just bought some land in a neighborhood of homes and built a cozy little house. There are two vacant lots south of you. If your town is zoned, no one can put up a large apartment house on those lots, overshadowing your home. stealing your sunshine and spoiling the investment of twenty years' saving. Nor is anyone at liberty to erect a noisy, malodorous public garage to keep you awake nights or to drive you to sell out for half what you put into your home.

If a town is zoned, property values become more stable, mortgage companies are more ready to lend money, and more houses can be built.

A zoning law, if enacted in time, prevents an apartment house from becoming a giant airless hive, housing human beings like crowded bees. It provides that buildings may not be so high and so close that men and women must work in rooms never freshened by sunshine or lighted from the open sky.

Zoning Reduces the Cost of Living

By zoning millions of waste from the scrapping of buildings in *"blighted districts"* may be eliminated.

A "blighted district" is a district, originally developed for residence or industry, in the future of which people have lost confidence.

The causes of such "blight" are mani-

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fold. The most familiar case is that of a residential district into which there have begun to creep various uses threatening rapid destruction of its value for residences,—such new uses as sporadic stores, or factories, or junk yards. It is not that a few such inappropriate uses really spoil the district, but that people having lost confidence, start a panic, like a "run on the bank." Hundreds of them hurry up to "unload" their properties at a sacrifice for any kind of use, no matter how objectionable to their neighbors—and the "blight" is on! Dwellings worth in the agregate millions of dollars for the purposes for which they were built, and physically fit to serve those purposes for many years to come, with a moderate investment in alterations and improvements, are thus annually abandoned to purposes for which they are not fit, or are left to stand practically idle. Expensive public services of water, gas, electricity, sewers and transportation are maintained at great waste in order to get through the "blighted" district to the more distant and newly fashionable location.

The total economic loss is enormous, and this loss and the risk of it are paid by the people, in the price of house rents or otherwise, as inevitably as they pay the price of the enormous fire losses either directly or through insurance.

Proper zoning cuts these losses at their source, just as proper building regulations and fire protection cut fire losses at their source.

Again, miles of streets and sewers and other utilities, such as are ordinarily built when land is newly subdivided for dwellings, need never be constructed if we know that these areas will be devoted mainly to large factories. Industry will be more efficient, as well as homes more wholesome, if kept generally separate. Separation need not mean great distances for workers to travel. Concentration of uses and a fair apportioning of districts should reduce the amount of all transportation and secure economies not only directly for the worker, but indirectly in the costs of production and marketing of goods.

If zoning can reduce the cost of living, why not have it?

Zoning is Legal

When a zoning law is properly drawn there is no doubt that the courts will support it. Enough favorable decisions have been handed down to show that the courts regard regulation of the uses of land and structures thereon, in accordance with the *kind* of district in which they are situated, as a reasonable exercise of the police power "for the public health, safety, and general welfare."

In fact, the courts have approved zoning whenever it was done sensibly and comprehensively. The first case arose in Boston, Masachusetts, where two different heights for future buildings were fixed throughout the city. This was supported by the highest court of Masachusetts and the United States Supreme Court. (Welch v. Swasey, 214 U. S. 91)

The next important case arose in Los Angeles, California, where under a zoning plan dividing the city into industrial and residential districts a brickyard in a residential district was ousted although it had been in existence for many years. This was upheld by the California courts and also by the United States Supreme Court as a proper exercise of the police power. Modern zoning ordinances are not retroactive, however. Hadacheck v. Sebastin, 239 U. S. 394.)

The best zoning case to show how far the courts will go in distinguishing between zoning districts is State of Ohio ex rel. Morris vs. Osborn, et. al., 22 N. P. N. S.) 549. The court held that one and two-family houses were less subject to noise, litter, danger of contagion and fire risk than multi-family houses and that they could be placed in different districts under the police power. This case, however, was not appealed to a higher court and we cannot say whether other states will follow it.

In New York State the highest court has declared the zoning of New York City to be constitutional, stating that zoning can be done under the police power if done with care and good judgment so as not to be arbitrary or confiscatory. Lincoln Trust Company v. William Building Corporation, 229 N. Y. 313).

How To Get Started

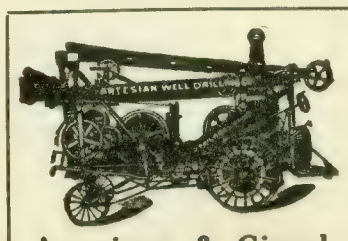
Find out if your state has an enabling act permitting localities to zone, even if your city has a charter with home rule powers. If not, the first move must be to secure specific authority from the state legislature. In the following states zoning is already so authorized.

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Illinois
Indiana
*Iowa
*Kansas
*Louisiana
Massachusetts
Michigan
*Minnesota
*Missouri
*Nebraska
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Wisconsin.

*Act does not apply to all classes of cities.

(Continued on page 593)

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Apartment House (alts. and add.), 1921 Diamond street, Philadelphia. Architect, Samuel Abramson, 2313 Walnut, Philadelphia. Owner, Eva Thornton, on premises. Brick, 3 stories, 9x8 feet, slag roof, oak floors, demolition, hot water heat, electric light, tile and marble work, bond. Architect taking bids.

Tunnels, etc., Byberry, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, C. Lincoln Furbush, M. D., Director, 584 City Hall. Alterations and additions to steam heating system, construction of tunnels, electric work and plumbing for Philadelphia Institution for Feeble Minded at Byberry. Owners taking bids due September 20th at noon.

Parochial School, Twenty-fourth and Wallace streets, Philadelphia. Architect, Charles J. Cummiskey, 118 West Sharpnack street, Germantown. Owners, St. Francis Xavier Roman Catholic Church, on premises. Stone, brick, granite, concrete and steel, 3 stories and basement, slag roof, cement and maple floors, hollow tile, slate work, metal lockers. Architect taking revised bids due September 19th.

Residence (alts.), 3436 North Thirteenth street, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners ,Drs. C. Fred P. and Mary Groth, on premises. Carpentry, painting, glazing, brick work, imitation Indiana limestone, tile work, terra cotta, iron work. Owners taking bids due September 15th.

Ice Manufacturing Plant, Tenth and Windrim avenue, Philadelphia. Architect, Jesse T. Hoekstra, 1713 Sansom street, Philadelphia. Owners, Logan Ice Co., care of C. W. Roberts, Tenth and Windrim avenue. Brick, 1 story, (4) buildings, 96x182 feet, slag roof, cement floors, electric light, refrigerating machinery, mill work, plastering, plumbing, painting. Architect taking bids due September 16th.

Residences (40), Euclid avenue, East of Fifty-sixth street, $253,000. Owners, Ramsey, Williams & Wright, 6042 Cobb's Creek Boulevard. Brick, 2 stories, 18x32 feet, slag roof, hot water heat, electric light. Owners will build.

Residence, South side Durham street, East of Cresheim road, $4,500. Architect, private plans. Owner, Stacy Dear, 117 Weaver street, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (4), Residence and Store (1), Richmond street, South of Kingston, $13,000. Architect, private plans. Owner, Joseph Schwenchky, 3592 Richmond street, Philadelphia. Brick, 2 stories, 14x32 feet, 11x12 feet, slag roof, hot water heat, electric light. Owner will build.

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Asphalt Paving—Ardleigh street, Price street to Haines street, $5,786.60; Lebanon avenue, Fifty-fourth to Fifty-third street, $14,936.55; Safford street, Ardleigh to Anderson street, $5,284.90; Torresdale avenue, Lewis to Kinsey street, $29,982.63; Torresdale avenue, Gillingham to Kennedy street, $37,772.90; Fourth street, Porter to Shunk street, $4,864.58; Twentieth street, Sixty-fifth avenue to Sixty-sixth avenue, $8,442.62; Twenty-third street, Allegheny avenue to a point north, $3,657.21: Eastern Paving Co., Colonial Trust Building, Philadelphia. Cherry street, Conestoga to Fifty-fifth street, $2,016: Barber Asphalt Paving Co., Land Title Building, Philadelphia.

Paving with Brick—Lebanon avenue, Bryn Mawr avenue to Fifty-third street, $2,170.12: United Paving Co., Colonial Trust Building, Philadelphia.

Grading, Paving and Improving—Rising Sun avenue, Roosevelt Boulevard to Olney avenue, $116,849.78: J. Joseph McHugh, 1430 South Penn Square, Philadelphia.

Loft Building, Northwest Corner Twenty-first and Market streets, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher and A. L. Greenfield, Fifteenth and Chestnut street, Philadelphia. Brick, steel and concrete, terra cotta, 12 stories, 188x102 feet, steam heating, electric lighting, tile and marble work, plate glass, rolled steel sash. Plans in progress.

Operation of Residences, West Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, John F. McGinty & Son, Sixty-sixth and Lansdowne avenue. Brick, 2 stories, 16x40 feet and 16x32 feet, slag and tin roof, hot water heat, electric light, tile and marble work, hardwood floors. Plans in progress.

Residences (15), Eleventh and Duncannon streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x48 feet, slate and slag roof, tin roof, hot water heat, electric lighting, tile and marble work, hardwood floors. Plans in progress.

Store and Apartments, Second and Federal streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick and steel, 2 stories, 120x20 feet, slag roof, pine and hardwood floors, steam heat, electric light, tile work, plate glass, metal bulks. Plans about completed.

Store Building (alts. and add.), 2247 North Broad street, Philadelphia. Architect, I. Demshick, 1701 Chestnut street, Philadelphia. Owner, Martin Weiss, 964 North Tenth street, Philadelphia. Brick and steel, 1 story and basement add., 18x60 feet, slag roof, general interior alterations. Plans in progress.

Factory and Boiler House, Tacony, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, L. H. Gilmer Co., Tacony, Philadelphia. Brick and steel. Plans in progress.

Residences (16), Forty-fifth and Osage avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Rose Const. Co., North American Building, Philadelphia. Brick and stone, 2½ stories, 30x35 feet, hot water heating, electric lighting. Plans in progress.

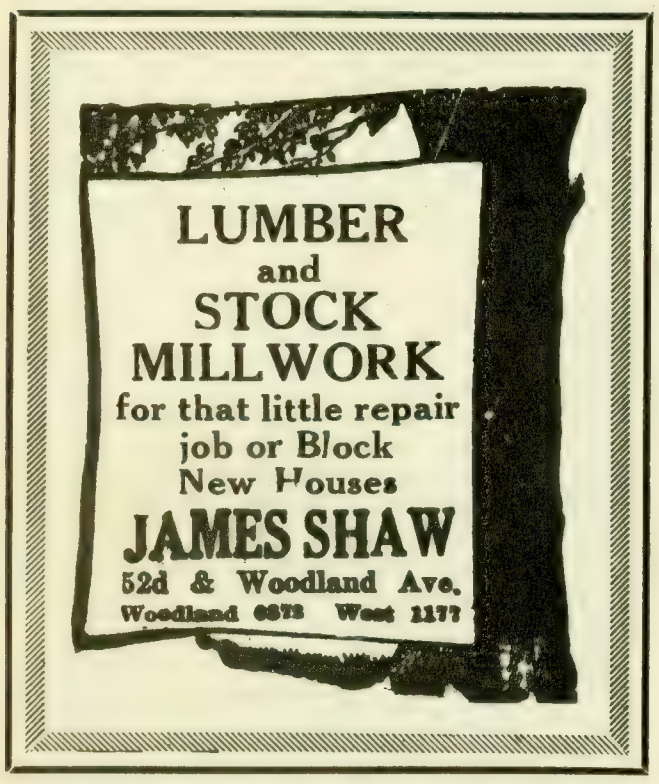
Apartments (alts. and add.), 1611-13 Bainbridge street, Philadelphia. Architect, C. Henry Wilson, 2028 West Berks street, Philadelphia. Owner, G. Edward Dickerson, 628 South Sixteenth street, Philadelphia. General alterations, brick and cement work, hot

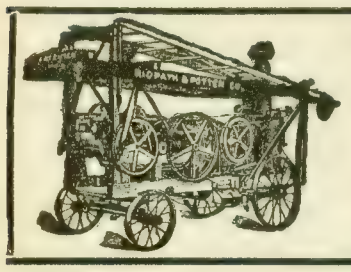
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water heat, electric light, plumbing, tile work, slag roof, hardwood floors, fire escapes. Owner is ready for general bids.

Office Building, Sixteenth and Moravian streets, Philadelphia. Architects, Huston & Lewis, 130 South Fifteenth street, Philadelphia. Owner, Samuel M. Clement, Jr., West End Trust Building, Philadelphia. Reinforced concrete and brick, cut stone and steel, 6 stories and basement, demolition, slag roof, cement floors, elevators, steam heating, electric lighting, tile and marble work, kalamein doors, iron work, terra cotta. Architects will take revised bids in a few days.

Main Building (add.), Brown's Farms, Forty-first Ward, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Corrections, City Hall, Philadelphia. Brick, bluestone and stucco, 1 story, 70x36 feet and 39x26 feet, slag roof, concrete floors, metal lath, roof ventilators, iron work, bond, marble work (heating, lighting and plumbing separate bids). Owners will be ready for bids in a few days.

Operation of Residences, Tacony, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Peter E. Costello, Commercial Trust Building, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric lighting, tile and marble work. Owner will be ready for sub-bids in a few days.

Stores (2), 5821-23 Germantown avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Charles Marion, on premises. Brick, 3 stories, 28x72 feet, slag roof, composition and pine floors, demolition, marble work, metal lath, rolled steel sash and skylights, bond, metal bulks, iron stairs (electric work, glazing, plumbing and painting reserved). Architect is taking sub-bids due at once.

Store (alts. and add.), 636 South street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Ideal Furniture Co., on premises. Brick, 3 stories, 18x58 feet, slag roof, wood floors, metal lath, elevator, metal ceilings, metal bulks, bond, fire doors, rolled steel sash and skylights, marble work, electric ighting, hot water heating. Owner is taking bids.

Stores and Residences (4), Residences (8) and Storage Building, Sixty-ninth and Woodland avenue, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, D. Sokolow, 3132 Clifford street, Philadelphia. Brick, 2 stories, 16x53 feet, 15x42 feet and 17x62 feet, slag roof, hardwood, pine and cement floors, metal lath, metal ceilings, metal bulks, hot water heat, electric light, tile and marble work, garages in basements. Owner is ready for sub-bids.

Store (alts. and add.), 800 North Sixteenth street, Philadelphia. Architect, private plans. Owner, Mrs. B. Elman, on premises. New store addition, brick, 1 story, electric lighting, pine floors. Owner is ready for bids.

Banking Room, Germantown and Roberts avenues, Germantown. Architects, Simons, Brittain & English, 336 Fourth avenue, Pittsburgh, Pa. Owners, Wayne Junction Trust Co., care of Mr. Scanlan, on premises. Brick, cut stone and steel, 3 stories, 110x40 feet, composition roof, cement and maple floors, hollow tile, metal lath, metal window guards, iron work, bond, kalamein doors, rolled steel sash, tile and marble, steam heat, electric lighting. Owners taking bids due September 20th.

Sales and Service Building and Dance Hall, 2240-44 North Broad street. Architect, F. V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick, terra cotta and steel, 2 stories, 177x51 feet, slag roof, mineral, maple and cement floors, metal ceilings, iron work, bond, rolled steel sash, tile and marble work, demolition. Architect taking bids due September 15th.

Residences (alts. and add.), 446 West Chestnut avenue, Chestnut Hill. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Walter D. Larzelere, on premises. Brick, cut stone, hollow tile and stucco, 2½ stories, 32x21 feet, shingle roof, metal lath, iron work, tile work (heating, lighting and finished floors reserved). Architect taking bids due September 16th.

Store and Residence (alts.), Northeast Corner Eighteenth and Mifflin streets. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, D. Falcone, 1510 South Thirteenth street, Philadelphia. Hot water heat, electric light, tile work, marble veneer, slag roof, composition floors, plate glass, flush bulks. Architect taking bids.

School Building, Bingham, Pelmetto and Bleigh streets. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Lowest bidders: Kober Const. Co., 34 South Seventeenth street, Philadelphia, $246,777; Sinclair & Griggs, Medical Arts Building, $253,500. Heating, McIlvain & Co., 1816 Ludlow street, $28,450. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, $12,389. Ventilating, W. Hewlett Co., Fourth and Columbia avenue, $560. Electric, Baird Osterhout Co., 2109 Walnut street, $5,200.

Sewage Disposal Plant, Fortieth Ward, Island road, Philadelphia. Architect, private plans. Owners, Department of Public Works, City Hall. Reinforced concrete and face brick and steel, 116½x594 feet, 40 feet below street level, 80 feet above, steel rails, electric equipment, hollow metal sash and doors, steel platforms. Lowest bidders: Jackson Co., 119 South Fourth street, $153,900; Keystone State Const. Co., 210 South Thirteenth street, $211,000. Mechanical equipment, Sanitary Corp. of America, Drexel Building, Philadelphia, $49,000. Electric equipment, M. L. Baird & Co., Inc., Philadelphia, $9,600. Plumbing, Philadelphia Steam Heating Co., Juniper and Cherry streets, Philadelphia, $3,062. Heating, Austin, Gorham & McIlvaine, 1816 Ludlow street, $2,484.

Bridge, over Pennsylvania Railroad at Fortieth street, Philadelphia. Architect, private plans. Owners, Department of Public Works, City Hall, Philadelphia. Lowest bidders: Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia: Item A, $179,344; Item B, $258,370. Mundy Paving & Const. Co., 228 South Alder street, Philadelphia; Item A, $186,580; Item B, $278,000.

Residences (39), South and North sides Susquehanna avenue, Fifty-sixth to Fifty-seventh, $257,000. Architect, private plans. Owner, C. E. Fox, 607 North Fortieth street, Philadelphia. Brick, 2 stories, 18x34 feet and 18x46 feet, slag roof, hot water heat, electric light. Owner will build.

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Residences (2), East side Lawndale, South of Bleigh, $9,500. Architect, private plans. Owner, W. G. Isles, 806 Levick street, Philadelphia. Frame, 2 stories, 14x46 feet, shingle roof, electric light. Owner will build.

Stores and Residences (2) and Residences (61), 1100-1156 and 1101-67 East Stafford street, $330,800. **Residences (29)**, 5801-57 Anderson street, Philadelphia, $5,500 each. Architect, private plans. Owners, Moss & Taylor, 851 North Sixty-fifth street, Philadelphia. Brick, 2 stories, 18x32 feet and 18x30 feet, slag roof, oak and pine floors, electric work. Owners will build.

Residences (11), North side Conshohocken avenue, West of Forty-ninth, $9,000 each. Architect, private plans. Owner, William C. Scull, 6049 Ellsworth street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 54 feet, slag roof, hot water heat, electric light, tile work. Owner will build.

Residences (4), North side Fairthorne street, East of Matthias, $4,000 each. Architect, private plans. Owners, G. L. and J. K. Callahan, 542 East Fairthorne street. Brick and frame, 2 stories, 16x45 feet, electric light. Owner will build.

Residences (2), North side Ludlow street, West of Forty-fourth street, $3,400 each. Architect, private plans. Owner, Nathan Litman, 1597 North Fifty-second street, Philadelphia. Brick, 2 stories, 14x30 feet, 11½x12 feet, slag roof, hot water heat, electric light. Owner will build.

Residence and Store (alts. and add.), 4958 Master street, $2,500. Architect, private plans. Owner, Antonio Coppa, 4950 Master street, Philadelphia. Brick, 2 stories, 17x38 feet, slag roof, electric lighting. Owner will build.

Garage, 4222-24 Paul street, Philadelphia, $2,000. Owner, Joseph Lenehan, 4223 Salem street, Philadelphia. Brick, 1 story, 17x100 feet, cement floors, electric light. Owner will build.

Home for Nurses (alts. and add.), 1808-10 Lombard street, $2,000. Architect, private plans. Owners, Trustees of University of Pennsylvania, Thirty-fourth and Spruce streets. Brick, 2 stories, 15x8 feet, general alterations. Owners will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Warehouse, Kensington and Lehigh avenues, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Steel frame, corrugated asbestos protected metal, 1 story, 30x53½ feet, concrete foundations, maple floors, rolled steel sash, bond, electric lighting. Contract awarded to Curtis Grindrod Co., 10 South Eighteenth street.

Residence and Store (alts. and add.), Northwest Corner Fifth and Poplar streets, Philadelphia, $5,000. Architect, private plans. Owner, S. Steinfeld, 3351 North Thirty-third street, Philadelphia. Brick, 1 story, 25x10 feet, 7x8 feet, slag roof, oak and pine floors. Contract awarded to Louis Swerdloff, 228 South Fifty-ninth street, Philadelphia.

Residences (2), 8037-39 Roanoke street, Philadelphia, $4,000. Architect, private plans. Owner, William Adair, 8035 Roanoke street, Philadelphia. Brick, 2 stories, 16x39 feet 8 inches, slag roof, hot water heat, electric light. Contract awarded to Young Brothers, Windmoore, Pa.

Office Building and Power House, Southwest Corner Fifteenth and Chestnut streets, Philadelphia, $1,250,000. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Albert M. Greenfield, Fifteenth and Chestnut streets. Brick, terra cotta and cut stone, 20 stories, 138x79 feet, slag roof, concrete floors, hollow tile, waterproofing, ornamental iron work, iron stairs, floor hardener, bond, kalamein doors, rolled steel skylights, tile, marble and terrazzo work, metal lath, steam heating, electric lighting. Contract awarded to F. W. Mark Const. Co., Commercial Trust Building.

Rectory, Fifty-fourth and Wynnefield avenue, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Barbara's Roman Catholic Church, care of Rev. Joseph L. Wolfe, premises. Brick and stone, 3 stories, 32½x39 feet, slag and slate roof, hardwood floors, waterproofing, ornamental iron work, tile and marble work, metal lath, hot water heat, electric lighting. Contract awarded to J. C. Mahoney, Drexel Hill, Pa.

Laboratory Building, Broad and Mifflin streets, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Agnes' Hospital, on premises. Brownstone, 1 story and basement, 80x41 feet, wing 26x66 feet, slate roof, cement floors, roof ventilators, rolled steel sash and skylights, iron work. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Residence and Garage (alts. and add.), 5510 Greene street, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owner, Thornton F. B. Scott, on premises. Brick, steel and iron work, plumbing, slag roof, electric light, plastering, carpentry, mill work, painting, hardware, glazing. Contract awarded to H. H. Wehmeyer, 508 West Cumberland street, Philadelphia.

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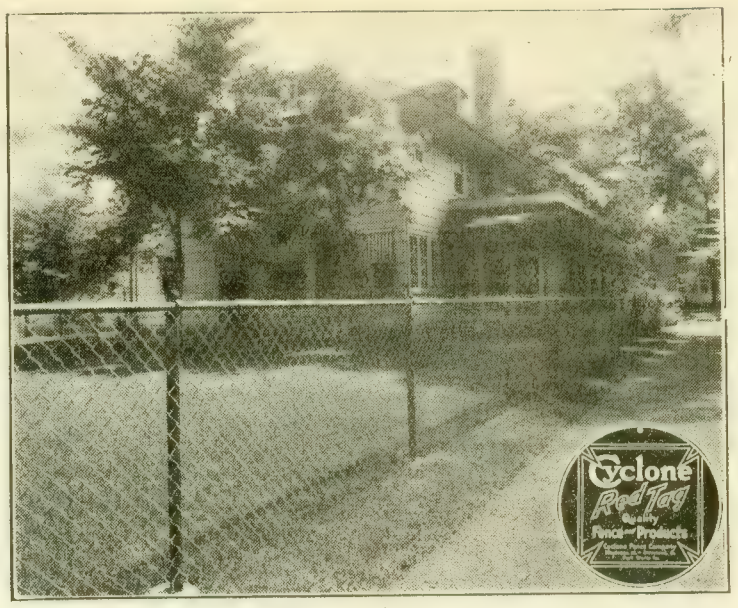
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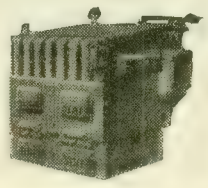
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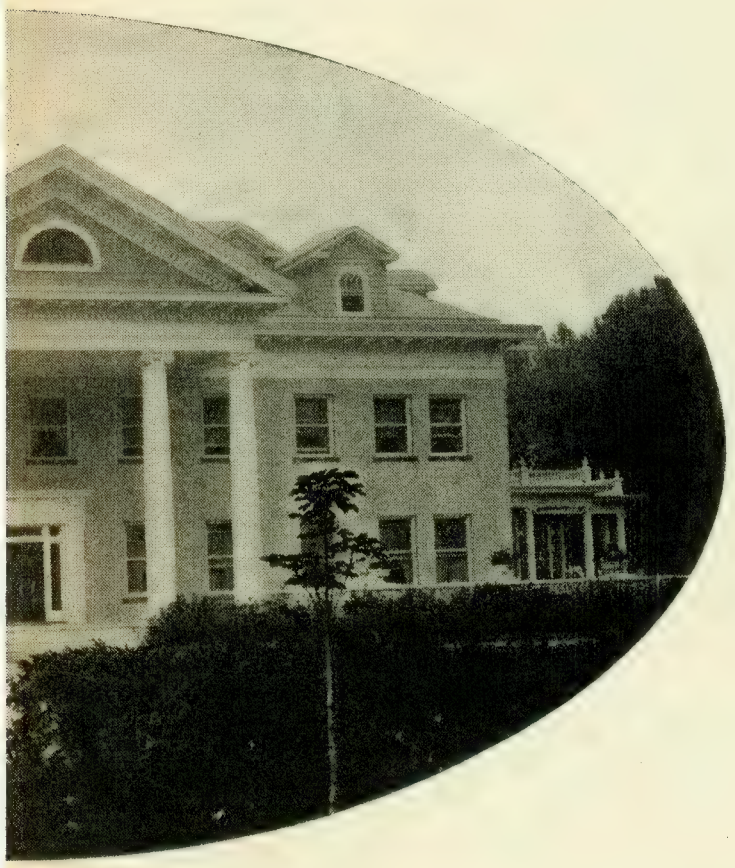
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Roxboro, $84,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Kauffman Plush Co., Manayunk, Philadelphia. Brick and steel, 3 stories, 87x76 feet, slag roof, cement floors, waterproofing, bond, iron work. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Sales and Service Building, 1305 North Broad street, Philadelphia, $24,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, A. M. Greenfield, Fifteenth and Chestnut streets. Stone, 3 stories, 26x100 feet, cement floors, steam heat, electric lighting. Contract awarded to B. Bornstein, 1319 Wingohocking street.

Factory, 4712-14 Market street, Philadelphia. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owners, Harrison Bruch Co., Fourth and Arch streets, Philadelphia. Brick, steel and castone, 3 stories, 30x110 feet, asphalt roof, pine floors, steam heat (electric light reserved), iron work, hollow metal sash and skylights. Contract awarded to Schaeffer & Co., Otis Building, Philadelphia.

Residence, Phil-Ellena and Greene streets, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Emmanuel Weil, 918 North Broad street, Philadelphia. Brick, 2½ stories, 34x55 feet, wing 20x20 feet, J. M. asbestos shingle roof, hardwood and pine floors, tile and marble work (heating and electric fixtures reserved). Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Residence, 1111 Wakeling street, Philadelphia, $17,000. Architect, private plans. Owner, John H. Brown, 1226 Fillmore street, Philadelphia. Stone, 3 stories, 37x30 feet, slate roof, hot water heat, electric light, also garage, 1 story, 19x20 feet, $2,000. Contract awarded to E. H. Taylor, Oxford and Wakeling streets.

Stores and Office, Northwest Corner Dock and Walnut streets, $7,200. Architect, private plans. Owner, J. Wallace Hallowell, 113 South Broad street, Philadelphia. Brick, 1 story, irregular size, slag roof, electric light. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Residence, North side Cottman street, West of Whitaker street, $5,000. Architect, private plans. Owner, W. E. Price, Burholme, Pa. Brick and frame, 2 stories, 20x25 feet, electric light, slag roof. Contract awarded to Elmer V. Phillips, 7202 Oxford avenue.

Residences and Stores (5), 4204-06-08-10-12 West Thompson street, $5,000. Architect, private plans. Owner, Jacob Sporken, 904 Arch street, Philadelphia. Brick, 1 story, 16x14 feet, 10x13 feet, slag roof, electric light. Contract awarded to N. Sporken, 1219 Pennsylvania Building, Philadelphia.

Residence, North side Devereaux street, East of Hawthorne, $4,000. Architect, private plans. Owner, Carl Dietrich, 6205 Frankford avenue, Philadelphia. Brick, 2 stories, 20x44 feet, slag roof, oak and pine floors. Contract awarded to F. A. Schreiber, 1306 City Line, Philadelphia.

Residence and Store (alts.), 1542 South Sixth street, Philadelphia, $6,500. Architect, private plans. Owner, E. Cranfield, 501 South Third street, Philadelphia. General interior alterations. Contract awarded to Harry Rubin, 2322 Brown street, Philadelphia.

Residences (2), 1307-09 North Fifth street, Philadelphia, $5,500 each. Architect, private plans. Owner, Charles Knee, 135 South Forty-ninth street, Philadelphia. Brick, 3 stories, 18 feet 10 inches x 35 feet 6 inches, slag roof, hot water heat. Contract awarded to A. Shestack, 5829 Walnut street, Philadelphia.

Residence, South side Afton street, East of Verrie avenue, $5,000. Architect, private plans. Owner, Samuel Gashow, 4438 North Fifth street, Philadelphia. Frame, 1 story, 30x30 feet, shingle roof, electric work. Contract awarded to Headman & Hagan, 427 West Olney avenue.

Residence and Store (alts. and add.), 3710 Market street, $4,000. Architect, private plans. Owner, Mrs. Glass, on premises. Brick, 1 story, 8 feet 9 inches x 12 feet, slag roof, yellow pine floors. Contract awarded to D. Rosenberg, 2510 South Eighth street, Philadelphia.

Garage, 4453 Leiper street, Philadelphia, $4,500. Architect, private plans. Owner, B. J. Haines, 4451 Leiper street, Philadelphia. Brick, 1 story, irregular size, cement floors, slag roof. Contract awarded to F. Dietrich, Jr., 1828 East Schiller street.

Tenement (alts.), 1014 North Sixty-third street, Philadelphia, $3,000. Architect, private plans. Owner, W. H. Guillium, 18 Colwyn road, Cynwyd, Pa. General alterations. Contract awarded to Louis E. Faulkner, 14 North Paxon street.

Store (alts.), 1006 Market street, Philadelphia, $3,000. Owners, Metropolitan 5- and 10-Cent Store, on premises. Metal lath, plastering. Contract awarded to George E. Gross, 1613 Chestnut street.

Residence (add.), 6047 Walnut street, Philadelphia, $2,000. Owner, Laura P. Hamak, on premises. Brick, 1 story add., 15x23 feet, 15x6 feet, slag roof, oak and pine floors. Contract awarded to Co-operative Builders, 125 South Sixtieth street.

Garage, Southeast Corner Front and Luray streets, $2,000. Architect, private plans. Owner, Leo Connor, 2122 Catharine street, Philadelphia. Brick, 1 story, 18x43 feet 5 inches, slag roof, cement floors. Contract awarded to George Good, Adams road, Olney, Philadelphia.

Wagon Shed, 752 North Markoe street, Philadelphia, $2,000. Architect, private plans. Owner, Luke Cannon, 775 North Markoe street, Philadelphia. Brick, 1 story, 40x66 feet, slag roof. Contract awarded to Harry G. Walters, 412 North Fortieth street.

Residence and Store (alts.), 805 South Eleventh street, $3,500. Architect, private plans. Owner, J. Gianini, on premises. General interior alterations. Contract awarded to J. Marvane, 785 Walnut street, Collingsdale, Pa.

Garage, 5510 Greene street, Philadelphia, $2,000. Architect, private plans. Owner, T. F. B. Scott, on premises. Brick, 1 story, 24x16 feet, slag roof, cement floors. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

Business Building (alts. and add.), 729 Walnut street, $3,000. Architect, private plans. Owner, M. Margolin, on premises. Brick, 1 story, 5x20 feet, slag roof, yellow pine floors. Contract awarded to Louis Swerdloff, 228 South Fifty-ninth street, Philadelphia.

Store and Office (alts.), 1116 Walnut street, Philadelphia, $3,000. Architect, private plans. Owners, W. S. Jones Co., 1116 Walnut street, Philadelphia. Carpentry, mill work, painting, glazing, plastering. Contract awarded to Rush J. Whiteside, 2115 Wallace street.

Residence and Store (add.), 412 North Sixty-fourth street, Philadelphia, $2,500. Architect, private plans. Owner, Pablo Saroco, on premises. Brick, 1 story, 16 feet 4 inches

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x 23 feet, 25x33 feet, slag roof, electric work. Contract awarded to A. M. Stefano, 503 North Sixty-fifth street, Philadelphia.

Residence and Store (add.), 5542 Chester avenue, $2,000. Architect, private plans. Owner, E. Leonard, on premises. Brick, 1 story, 16x10 feet, slag roof, pine floors. Contract awarded to George Adams, 5905 Chester avenue, Philadelphia.

Residence (alts.), Northeast Corner Camac and Oxford streets, $2,000. Architect, private plans. Owners, Anthony and Anna Spezus, on premises. General interior alterations. Contract awarded to M. A. Greene, 1607 North Thirteenth street, Philadelphia.

Pennsylvania Construction News

Residence and Garage, Highland Park, Pa. Architect, Richard R. Neely, 2136 Pine street, Philadelphia. Owner, C. Keiter, care of architect. Frame and stucco, 2½ stories, 26x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due September 15th.

Factory, Boiler House and Stack, State street and P. R. R., York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Gilbert Wall Paper Co., P. J. Gilbert, 728 Linden avenue, York, Pa. Concrete and brick. Too early for details.

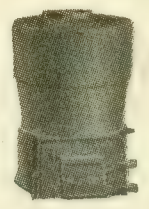
Bakery, Myerstown, Pa. Architect, L. D. Lance, 108 North Fifth street, Reading, Pa. Owners, Pretz-Sticks Baking Co., Myerstown, Pa. Brick, concrete block, 2 stories, 102x102 feet, slag roof, pine and concrete floors, electric light, rolled steel sash, metal lath, roof ventilators, rolled steel sash, fire doors, waterproofing, dampproofing. Preliminary plans completed.

Bungalow, Penn Side, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Edward Gotshall, 123 Spring street, Reading, Pa. Brick, concrete, 1½ stories, 30x60 feet, slate roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Store, 726-28-30 Penn street, Reading, Pa. Architect, F. A. Muhlenberg, 24 North Sixth street, Reading, Pa. Owners, Harold Furniture Co., 812 Penn street, Reading, Pa. Brick, steel, limestone, 5 stories and basement, 40x270 feet and 40x180 feet, asphalt roof, terrazzo and cement floors, steam heat (heating, plumbing, electric and elevators reserved), hollow tile, roof ventilators, tile, marble and terrazzo work, rolled steel sash, iron stairs, ornamental iron work. Architect will be ready for bids next week.

Residences (26), Wynnefield, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, James C. Enburg, Fifty-sixth and Warrington avenue, Philadelphia. Stone, 3 stories, 19x48 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work, garages in basement. Owner taking sub-bids.

Superstructures (6), Enola, Pa., (7) Pitcairn, Pa. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, concrete and steel, 1 story, 1 each of, first six at each location, freight car repair shop, 620x100 feet, oxygen



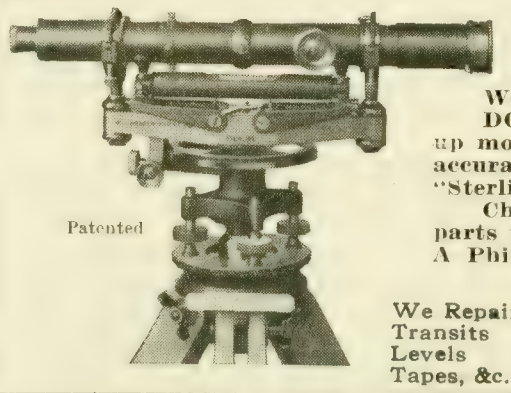
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and acetylene storage building, 1 story, 31x16 feet, paint storage and air brake shop, 1 story, 61x16 feet, paint shop and bake oven, 1 story, 424x100 feet, store house building, 202x42 feet, oil house, 1 story, 25x13 feet, rivet cutting building (Pitcairn only), 1 story, 200x36 feet, slate, shingle and Barrett specification roof, cement floors, iron work, floor hardener, bond, rolled steel sash, metal lath, steam heat, electric lighting. Owners taking bids due September 15th.

School, Mt. Penn, Reading, Pa. Architect, H. Maurer, 226 North Fifth street, Reading, Pa. Owners, Mt. Penn School Board, W. Edgar Bates, secretary, Mt. Penn, Reading, Pa. Brick, 1 and 2 stories, 38x160 feet, Spanish tile roof, maple floors, hollow tile (heating, plumbing and electric work reserved), roof ventilators, waterproofing, dampproofing. Owners taking bids due September 22nd.

Residence, Merion, Pa. Architects, De Armond, Ashmead & Bickleu, Franklin Trust Building, Philadelphia. Owner, Paul Tappan, Ardmore, Pa. Stone, 2½ stories, 38x30 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Architects taking sub-bids due September 15th.

Residences (17), Wynnefield, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, W. Percival Johnson, 4039 Lancaster avenue, Philadelphia. Stone, 2 stories, 16x45 feet, slate and slag roof, hot water heat, electric lighting, tile and marble work, garages in basement. Owners are taking sub-bids.

Residences (12), Conshohocken, Pa. Architect, Walter K. Durham, 32 Walnut street, Philadelphia. Owner, name withheld. Frame, brick and frame, and concrete block, 1½, 2 and 2½ stories. Architect taking bids.

School Building, Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School District, Borough of Pottstown, Pa. Brick, cut stone and steel, 2 stories, 138x66 feet, composition roof, cement and maple floors, roof ventilators, dampproofing, iron work, bond, metal lath, steam heating, electric lighting. Lowest bidders: F. H. Kaiser Co., Pottstown, Pa., $81,327; J. Hampton, Norristown, Pa., $83,803.

School, Penn Square, Montgomery County, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, School District of East Noriton Township, Pa. Lowest bidders: H. C. Shallcross, Gratersford, Pa., $19,170, 200 days; F. R. Heavner, Norristown, Pa., $19,975. Plumbing, C. M. Ottingers, Fort Washington, Pa., $2,090.21. Heating, H. C. Butler, Philadelphia, $568.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Sept. 5, 1922. Sealed Proposals will be received at this office until 3 P. M., October 3, 1922, and then opened for an extension to the building and driveway, and remodeling interior, at the United States Post Office and Court House, at Parkersburg, W. Va., in accordance with the specifications and drawings mentioned therein. Copies of which may be had at this or at the office of the Custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

If your sales-talk is keyed to interest men who build it should occupy space every week in the "Guide," the only building news magazine this side of Manhattan Island.

Pennsylvania Contracts Awarded

Residence, Elmwood avenue, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, Harry Weinstock, Newberry and Market streets, York, Pa. Brick, 2½ stories, 40x30 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to I. Reindollar & Son, York, Pa.

Apartment and Store (alts. and add.), King and Queen streets, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, Keystone Hotel, care of E. Bush, 132 South Queen street, York, Pa. Brick, 3 stories, 70x31 feet, slag roof, pine floors, hot water heat, electric light, tile work, refrigeration. Contract awarded to S. Gladfelter, York, Pa.

Residence, Lewistown, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, Senator F. W. Culbertson, Lewistown, Pa. Brick, 45x33 feet, composition roof, hardwood floors, vacuum heat, electric light, tile work. Contract awarded to Steinbach & Sons, Lewistown, Pa.

School, Walnut street, West of Sixty-ninth street, Stonehurst, Pa., $99,893. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Upper Darby Township, Pa. Limestone, brick, cut stone and steel, 2 stories, 147x57 feet, Barrett roof, maple and cement floors, roof ventilators, dampproofing, metal lath, rolled steel sash, copper skylights, iron work and stairs, bond. Contract awarded to Bowden Const. Co., 1935 Chestnut street.

Twin Residence, Narberth, Pa. Architect, private plans. Owner, William Nagle, Narberth, Pa. Hollow tile and stucco, 2½ stories, 47x28 feet, shingle and slag roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

Store and Apartments, Ardmore, Pa. Architect, John T. Norton, Ardmore, Pa. Owner, William Armstrong, Ardmore, Pa. Brick and steel, 2 stories, 20x88 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

Stores, Pottsville, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, W. S. Weiss, 15 North Centre street, Pottsville, Pa. Brick, 3 stories, 32x90 feet, slag roof, hardwood floors, hollow tile, electric light, tile work, rolled steel sash and skylights, fire doors, roof ventilators, waterproofing, dampproofing, structural iron. Contract awarded to Builder Aregood, Pottsville, Pa.

Foundry Building, Reading, Pa. Architect, F. A. Muhlenberg, 24 North Sixth street, Reading, Pa. Owners, Chantrell Hardware & Tool Co., Millmont, Reading, Pa. Brick, 1 story, 60x90 feet, asphalt roof, electric light, roof ventilators, rolled steel sash. Contract awarded to Beard Const. Co., 658 Penn street, Reading.

Office and Shop, West Chester pike, Highland Park, Pa. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owner, C. Keiter, care of architect. Stucco, 1 story and basement, 18x23 feet, shingle roof, hardwood and cement floors, plate glass, hot water heating, electric lighting. Contract awarded to J. William Reppenhagen, 23 South Fifty-second street, Philadelphia.

Recreation Pavilion, Lansdowne, Pa. Architect, Paul Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Vincent's Home, Lansdowne, Pa. Brick, steel and concrete, 2 stories, 59x135 feet, slate roof, cement, pine and maple floors, electric light, metal lath. Contract awarded to Pierce Henon Co., Juniper and Pine streets.

Store and Apartment (alts.), 504 Penn street, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, E. O. Emerick, on premises. Plate glass, copper work, hardwood floors, tile and marble work, roof ventilators, rolled steel skylights, general interior alterations. Contract awarded to Oscar Dagler, 1041 A Walnut street, Reading.

Stores and Apartments (4), Drexel Hill, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, H. J. Rittenhouse, 4219 Lancaster avenue, Philadelphia. Brick, 2 stories, 83x44 feet, slag and slate roof, pine floors, metal lath, hot water heat, electric light, tile work. Contract awarded to Conneen Const. Co., 10 South Eighteenth street, Philadelphia.

New Jersey Construction News

Garden Pier (alts.), Atlantic City, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Pier Realty & Holdings Co., care of Louis Burk, Atlantic City, N. J. Concrete work, carpentry, mill work, slag roof, hardware, plastering, painting, glazing, iron work. Architects taking bids.

School House, Glendora, N. J. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owners, Board of Education of Gloucester County, Blackwood, N. J. Brick, 2 stories, 61x75 feet, slate roof, maple floors (plumbing, ventilating, light and heating separate bids). Owners taking bids due September 15th.

Hotel, Bridgeton, N. J. Architects, Dreher, Paul & Churchman, Otis Building, Philadelphia. Owners, Bridgeton Hotel Co., Bridgeton, N. J. Brick, cut stone, granite and steel, 7 stories, 67x110 feet, slag roof, maple floors, hollow tile, metal lath, terra cotta, iron work and stairs, rolled steel skylights, tile and marble work (demolition and elevators reserved). Architects taking bids due September 15th.

Office and Stores (alts. and add.), 38 East State street, Trenton. Architect, W. Hankin, 39 East State street, Trenton, N. J. Owners, Fisher Estate, Edward Fisher, care of architect. Steel, semi-fireproof, 4 stories, 19x65 feet, slag roof, pine floors, hot water heat, electric light, hollow tile, metal lath, tile work, rolled steel sash, roof ventilators, waterproofing, dampproofing. Architect will take bids next week.

Assembling Plant (alts. and add.), Trenton, N. J. Architect, R. G. Consolloy, Commonwealth Building, Trenton, N. J. Owners, Freeman Electric Co., 803 East State street, Trenton. Brick, 1 story additional, 60x60 feet, slag roof, concrete floors, electric light, general interior work, fire doors, ornamental iron work. Architect taking bids due as soon as possible.

Boiler Room, North Broad street, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Castania Dairy, North road street, Trenton, N. J. Brick, 1 story, 47x32 feet, slag roof, concrete floors, electric light, rolled steel sash. Owners taking bids.

School, Gloucester Heights, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Westmont, N. J. Lowest bidders: Freil McLeister, Inc., 2146 East Norris street, Philadelphia, $27,444, 80 days; Wills Bill Co., 1706 Sansom street, Philadelphia, $27,835, 175 days. Contract for heating and ventilating awarded to Mechanical Equipment Co., Drexel Building, Philadelphia. General contract not yet awarded.

New Jersey Contracts Awarded

Warehouse, Baltic and Delaware avenues, Atlantic City, N. J. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Hollow tile, 1 story, 157x100x71 feet, wood roof, concrete foundations, hot water heat, electric lighting, garage, 38¼x60 feet, and office and sleeping quarters. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Residences (6), Hamilton avenue, Trenton, N. J., $30,000. Architect, private plans. Owners, Independent Realty Co., 408 Market street, Trenton, N. J. Brick, 2½ stories, 15x40 feet, slate roof, pine floors, electric light. Conrtact awarded to John Taub, 613 South Warren street, Trenton, N. J.

Garage, 640 East State street, Trenton, N. J., $15,000. Architect, private plans. Owner, R. C. Manning, 221 East Front street, Trenton, N. J. Brick, cement block, 1 story, 46x150 feet, slag roof, concrete floors, electric lighting. Contract awarded to J. Ross & Son, 35 Boudinot street, Trenton.

Store, Hermitage avenue, Trenton, N. J. Architect, private plans. Owner, Charles Hanna, care of builder. Brick, 1 story, 19x38 feet, slag roof, pine floors, steam heat, electric light, plate glass, terra cotta. Contract awarded to Charles Randall, 43 North Hermitage avenue.

(Continued from page 584)

This list does not include Connecticut, District of Columbia, South Carolina and Tennessee, acts of which apply to a particular city; and North Carolina, which has recently passed a City Planning Act granting zoning powers to city plan commissions.

There must be some local official body to initiate the work of zoning. If there is a Planning Board or Commission, that is the logical body to take up the problem. If there is no such body, one should be created, because zoning, to be done with wise foresight, must take account not only of existing conditions and obvious tendencies of growth, but of probable changes and improvements of many sorts. It is part of the general planning problem. It relates to the transportation system, including streets, street railways and other local passenger transportation, railroad freight and passenger service, and water-borne commerce if any. It relates also to public works and utilities, to park, schools, and many special public and private undertakings.

A Zoning Program

Surveys: A zoning ordinance needs to be based on a comprehensive and detailed study of the precise *local conditions*, both present and prospective. What fits one city or town may be a bad misfit for another. There is no short-cut to good zoning in any community through blindly accepting what has been done for another community. The only safe path is a thorough, open-minded examination of the facts in each community as to existing uses, existing densities and heights of buildings, the customs of the people, and the trend of affairs. In every city there are citizens and organizations having in their possession valuable knowledge of local conditions. These have a large contribution to make to those responsible for zoning, although those who have lived their whole lives in a community do not necessarily realize all that is going on about them.

The zoning of a city requires expert professional knowledge just as the presentation of a case in court requires legal training. But just as the lawyer depends upon the layman to secure his facts, so must the professional zoning expert call upon the citizens for much of the accurate information upon which any good zoning regulations must be based.

Technical Advice: The practice of zoning is relatively new in America. We are feeling our way and must learn by experience. Those who have had experience tend to become expert, with broader knowledge of practices that are proving effective. These men are becoming gradually more skilled in the methods of getting at the essential fact of any local situation, and in the interpretation of those facts. If they possess insight and sane judgment, their advance becomes increasingly valuable.

Scope of a Zoning Ordinance: A zoning ordinance consists of one or more maps dividing the city into different kinds of districts; and a statement of methods of regulation to be employed in each district in regard to the use to which property may be put, the height and size of buildings, and the amount of space to be left vacant; with adequate provisions for enforcement.

Getting Public Support: In the process of drafting a tentative ordinance, it is important, by means of full public discussion, to be sure that the ordinance is an "application of common-sense and fairness" and will "provide each district, as nearly as practicable, with *just such protection* and *just such liberty* as are sensible in that particular district." It is essential likewise to be sure that public opinion as a whole will support it.

Zoning in Operation: A zoning ordinance is of value only as it is properly enforced. Because of the difficulty of making with precision the forecasts on which it is based, its operation should be closely followed by those who most intimately understand the reasons for its provisions. Thus, improvements and adjustments may from time to time be intelligently made. It is to furnish in exceptional cases a means for remedying possible injustices that, in some states, provision is made for a Board of Adjustment or Appeals.

It is obvious from the nature of the case that even if a zoning ordinance were drawn with super-human perfection, time and the natural growth of the community may show the need of modifications. The purpose of a zoning ordinance is not to stifle growth, but only to insure that instead of taking place sporadically and wastefully it shall go on in an orderly way, in response to generally recognized needs and with due notice to all concerned.

What Cities and Towns Have Accomplished by Zoning

Undoubtedly the most convincing statement which could be made in regard to the value of zoning is that practically all the large cities of the United States now feel that it is impossible to continue to develop further without the adoption of a building zone plan. New York, St. Louis, Los Angeles, San Francisco, Milwaukee, Washington, Newark, Rochester, Omaha, not to mention smaller cities such as East Orange, N. J., Berkeley, Calif., and Brockton, Mass., already have zoning ordinances in operation, while Chicago, Philadelphia, Detroit, Cleveland, Baltimore, Pittsburgh, ,Portland (Ore.), Atlanta, and many others have zoning plans in progress. Moreover, it is not alone our larger cities which realize the necessity for timely regulation of the uses of property. A considerable number of the smaller towns, especially in California, Ohio, Illinois, New Jersey, and New York, either have passed zoning ordinances or have them in an advanced stage of preparation.

In fact, on April 12, 1922, 58 municipalities in the United States were on record as having zoning ordinances already enacted, and 110 were reported to have zoning plans in progress.

Actual experience with zoning regulations has brought to light certain striking facts.

It is stated on reliable authority that the New York zoning regulations have prevented vast depreciation in many districts and effected savings in values amounting to millions of dollars in established sections. Certain districts have been rehabilitated as a direct result of the zoning ordinance. Another interesting result has been the production of a type of high building believed to be far better than the former elongated matchbox type.

In an analysis of building permits issued in St. Louis in the first fourteen months under the zoning ordinance, it was found that residences tended to follow the residence district and did not even attempt to seek locations in industrial or unrestricted areas. Except commercial buildings which were built partly in commercial and partly in industrial districts, the development of St. Louis

is said to be fitting itself very closely to the zoning plan.

To avoid the common condition that industrial plants encounter of having to do business on a "residential basis," denied large-scale facilities in their vicinity on account of protests by residence owners, Alameda, Calif., among other cities, has established industrial zones in which no new permits to build residences will be granted. A leading municipal engineer is quoted as saying that the prohibition of residences in industrial zones is one of the most important protections to put in a zoning ordinance. This method is being relied on to develop Hoboken, N. J., as a great industrial terminal.

In New Jersey it has been found that the unzoned suburban town is at a distinct disadvantage as compared with the community protected by a zoning ordinance. People are asking themselves why they should invest money in a home or lend money on a mortgage in an unprotected, unzoned locality. The zoned towns are actually absorbing the better grade of development. The result has been that builders, architects, and real estate owners in unzoned towns are persistently urging their local councils to adopt zoning, so that they may have as good a selling proposition to offer prospective clients as their competitors in the zoned towns.

Where To Get Information

Information concerning zoning progress in states and cities of the United States will be made available by the Division of Building and Housing of the Department of Commerce at Washington, D. C. A selected Bibliography of Zoning is issued by the Division, and may be secured on application.

For several years there has been developing a feeling that some agency of the Federal Government should interest itself in building and housing. The Congress of the United States made an appropriation for such activities for the year 1921-1922. The Act appropriating the funds says, among other things, "That as much, of this sum as necessary shall be used to collect and disseminate such scientific, practical, and statistical information as may be procured, showing or tending to show approved methods in building, planning, and construction, standardization, and adaptability of structural units, including building materials, and codes, economy in the manufacture and utilization of building materials and supplies, and such other matters as may tend to encourage, improve, and cheapen construction and housing."

Accordingly, Secretary Hoover created the Division of Building and Housing, which co-operates with all groups interested in housing and construction, such as architects, builders, building material producers and dealers, building trades labor, contractors, builders' exchanges, realtors, building and loan associations, building inspectors, city officials, and others.

The Division has helped local communities in successfully solving their housing problems. It collects and publish monthly prices of twenty-four items of building materials as paid by contractors in different cities. It also makes reports on building activity, such as building permits and contracts awarded, and on general building and housing conditions in the country.

Mr. Hoover has appointed two main committees which co-operate with the Division of Building and Housing. The Advisory Committee on Building Codes, with a Subcommittee on Plumbing, is drafting minimum code requirements for building construction. The Advisory Committee on Zoning is making studies of state enabling acts and zoning ordinances. Its reports should be of distinct aid to communities interested in the promotion of the public welfare and the protection of property values.

THE APPRENTICESHIP PROBLEM

The Shortage of Building Trades Has Aroused the Attention of all and Must Be Dealt With

BY A. W. DICKSON, *Executive Secretary, N. B. T. E.*

One of the biggest questions the building industry has to face at the present time is the universal shortage of skilled mechanics. This shortage is apparent on every hand, the smaller cities being affected as much as the larger center of industry. Even common labor, which a few months ago was abundant, has now become difficult to secure.

The shortage of skilled mechanics is becoming more acute each year, and steps must be taken to correct the situation at once. Some alarming figures recently appeared in the *American Contractor* which show that, out of ten trades surveyed, six actually registered a loss for the ten-year period from 1910 to 1920. Common labor sustained the greatest loss, there being 28.4% fewer men in this work in 1920 as compared with 1910. Bricklayers show a loss of 23.6% over the same period of years, while plasterers and sheet metal workers register losses of 19.8% and 19.2% respectively.

There are a number of contributing factors which have brought about this condition. With the declaration of war in 1917 thousands of boys, who ordinarily would have been drawn into the building industry, joined the colors, and many of the men who did return to civil life found that they were physically unable to enter the building field. Then too, many of them had passed the age when it was possible for them to become apprentices, so naturally they drifted into other lines of work.

Bricklayers Build Automobiles

The high war time wages of four years ago in other industries appealed to many of the men who had already learned their trades and the result is that many of them are lost to the building industry forever. A recent census taken in one of the large automobile factories of Detroit revealed the interesting information that there were several hundred bricklayers working on machines in that particular plant.

Negligence on Both Sides

The unions are responsible to a large extent for the present shortage of mechanics, as they have made it increasingly difficult for boys to become apprentices. Nearly every contractor at some time or another has wanted to put on additional apprentices, but was informed that his quota was filled and therefore he could not take on any more boys. Many contractors, however, have been negligent in their duty also, by not wanting to go to the bother of having apprentices on their jobs.

The results of this shortage are being manifested in various ways. Just now wage scales are being advanced in many places, in spite of the fact that living costs are coming down. The United States Department of Labor in its latest bulletin on living costs show that there has been a decline of 13.5% from May 1921 to March 1922. This decrease should be reflected in wage rates but it is not, due very largely to the shortage of skilled mechanics now existing.

It is an established fact that one of the basic reasons why the coal industry is in such a chaotic condition at the present time is on account of the surplus of miners. It is very generally accepted by both operators and miners alike that there are 200,000 more miners in this country than are needed. How much better would it be for the two industries if many of the miners had become building mechanics.

The clerical field is also overcrowded. In recent years there has been a tendency on the part of too many boys to shun anything that looked like manual labor. The result is that the white collared profession is overcrowded. In this connection it is interesting to note that the employment bureau of the Open Shop Association in San Antonio, Texas, during the year 1921 were able to place over 50 per cent. of the skilled mechanics who

applied for work in permanent positions, while only 14 per cent. of those seeking clerical jobs were placed.

There are a number of advantages to be derived by an ambitious boy from learning a trade in the building industry. There are few fields of endeavor that present greater opportunity. A large percentage of the leading contractors of the country at one time worked at some trade and through persistent effort and hard work succeeded in establishing their own businesses.

A man who has thoroughly mastered one of the building trades does not need to be out of work very long at a time, because wherever he goes in the civilized world there will be a demand for his services. A bricklayer who learns his trade in New York can work at it in London or Tokio. Many of the best mechanics in this country at the present time learned their trades in Europe.

What is the solution of the problem? Congress took a long step forward when in 1917 the Smith-Hughes law was passed, which summarized reads as follows: "An Act to provide for the promotion of vocational education, to provide for cooperation with the states in the promotion of such education in agriculture and the trades and industries; to provide for co-operation with the states in the preparation of teachers of vocational subjects; and to appropriate money and regulate its expenditure."

For the fiscal year ending June 30, 1923, there will be available the sum of $1,750,000 for the purpose of vocational education, distributed proportionately between the various states. In many cities the contractors have taken advantage of the opportunity of establishing trade schools for mechanics and the results are highly gratifying. In Cleveland a class is about to be established and 100 boys have signed up for the course. In Los Angeles a class is being conducted for plasterers. San Francisco has had a number of classes under way for some time. Youngstown, Ohio, established classes in bricklaying, plumbing, electrical work and sheet metal work last year and the results obtained were very satisfactory.

Contractors in many places have failed to avail themselves of the opportunity to establish such classes, and as a result the industry is suffering at the present time.

The Federal Board for Vocational Education at Washington, D. C., is the official representative of the government in this matter and any group of contractors interested can secure additional data by communicating with that body.

—*American Contractor.*

NEED OF A VITAL CODE OF ETHICS

BY F. F. FEIKER,

Vice President of the McGraw Hill Company, New York City

Address delivered at Washington, D. C., June 20, 1922, at the organization meeting of the American Construction Council.

The Broad Basis for the Establishment of a Code of Ethics

In accepting at short notice an invitation to speak before this body, I am presenting, not the views of one who has been active in the construction industry, but rather the point of view of an interpreter and observer over the last 15 years of a trend in our industrial life which seems highly significant.

There are distinct indications today of forces at work in business life which can recreate the purposes of commerce and set high standards for the conduct of business, not only for America but for the world. In hundreds of meetings, across scores of luncheon tables, men are discussing the necessity for a new industrial leadership and the opportunity for that industrial leadership in America. The fine thing about these dscussions by thoughtful men is that each seess in his own profession that opportunity for leadership. The lawyer, the engineer, the economist, the statesman, the industrialist, the banker, the manufacturer, the merchant and the salesman, men in all fields of professional and commercial activity, are thinking in new terms of their work, and each in a different way is giving expression to a universal desire. Each is really trying to answer the question, old as civilization, which was phrased by Dean Kimball of Cornell when he said that we are attempting to solve the problem, "What is mine and what is thine?"

America above all other nations offers the most fruitful opportunity for a new leadership. Our social structure is not laid-up in a stratification of classes. It is still possible for a newspaper publisher to become President of the United States and for a steel hand to head the works. We are, as Americans, idealists. Business to us is an end in itself and not merely a means to an end. The novelist, in interpreting the social responsibilities of industry, usually to its disparagement, is prone to overlook this fact. There is something truly American in the possibility that a man, only 20 years old, may come to our shores from Egypt and in 10 years become owner of a factory and two retail stores.

The ferment for a new leadership of industry may be considered wholly from the viewpoint of the professionalizing of commerce. We are, as a nation, strong individualists. As Secretary of Commerce Hoover has put it, we have a very high individual efficiency in industry, but a very low collective efficiency. Creative business men are seeking for new measures of value. Service as a basis for profit-making is coming to be recognized as the true motive for creative industry. Business men are establishing codes of practice in all lines of industrial activity. Men in business are as human as artists or lawyers or chemists, and the ethical standards of men of business are no higher and no lower than the ethical standards of our people as a whole. What is apparent in industry, however, is a conscious effort, a definite attempt, to make its standards known, to put commerce on a high plane, and to base creative industry on high ethical principles.

The General Character of Codes of Ethics and Sound Business Practice

Perhaps the most complete single contribution recording the professional trend of industry, which in a word is the blending of the service motive and the profit motive, is found in the Annals of the American Academy of Political and Social Science for May, 1922. Clyde L. King, the editor of this most complete summing up of the status of codes of ethics in the professions and in business, points out in his foreword that codes of ethics are important agencies of cosial control. "Until recently," says Dr. King, "business was looked upon solely as a means to a selfish end. The ethics of business were these of the barter market. The buyer could beware. The sole test of the seller was what he could get away with. But modern transportation systems have changed all this. Oranges grown in California must now be marketed in Philadelphia and automobiles are made in Detroit to be sold in the Orient. The manufacturer sells to distant unknown customers through advertising. Even contracts to buy and sell are let by word of mouth. Selling prices must now be announced before goods are produced. Business hangs more and more on good faith. The old adage—"A man's word is as good as his bond," acquires new meaning as a business asset."

Within a few days we have also the testimony of a man recognized as a maker of industrial opinion in the country, Judge Gary of the United States Steel Corporation. In a commencement address at Northwestern University, Judge Gary said, "It may be asserted with absolute confidence that within the last 20 years or more there has been a decided change in the standards and conduct of business. To my personal knowledge, many of the most intelligent managers of business affairs, some very large and

others smaller, who have laid down the cares and difficulties of this life, before their final departure completely changed their opinion and reversed their methods concerning ethical questions.

"This applies also to many who are still living. Hundreds upon hundreds, yes, thousands upon thousands of business men all over this country 20 years ago believd that the subject of ethics had little, if any rightful place in business conduct, now assert and insist that it is essential and controlling. A man of high intelligence and probity about 10 years since, while testifying in court, alluding to a large business concern, said: 'He introduced new rules into the business game.' I think it properly may be claimed that multitudes of leading business men during the last two decades have voluntarily devoted more and more time and energy in a conscientious desire to conduct their business in accordance with the rules of propriety and honesty."

"There is another convincing reason for the noticeable changes resulting from the adoption of ethics in busines," said Mr. Gary. "While the motives are not equally worthy with others, they are very practical and influential with many who would not otherwise be converted. Ethical management brings additional profits to business. Sooner or later it pays in dollars and cents.

If by honesty and fair treatment we satisfy our patrons they will show it in all their dealings. They will be less disposed to be hypercritical. They will be reasonable in all their transactions with us and insist upon only what is practical and proper under all existing conditions and circumstances; and if the producer, or one who renders service, professional or otherwise, is asailed by outsiders, they will champion his rights. This is of much value in times of stress or of unjust criticism.

An Analysis of the Code of Ethics in the Annals

Thus we have stated, both from the broad point of view of society as a whole and of the practical advantages to those activities of society by which it works and earns—business, the value of ethical codes as a base.

A consideration of the practical accomplishments of such codes of ethics as have been established can be found in the Proceedings of the American Academy already referred to. The survey, as presented, is divided into 10 sections:

I. The significance of the Ethical Codes for the Professions.

II. The Ethical Codes of Lawyers.

III. The Ethics of the Medical Profession.

IV. The Ethical Codes of the Engineers.

V. The Ethics of Architects.

VI. Ethical Standards for Teacher, Librarian, Minister and Social Worker.

VII. Ethical Standards for Journalists.

VIII. The Ethical Code of Accountants.

IX. Ethics in business.

and an appendix with the detailed statement of 2.2, codes of ethics already adopted by the various groups suggested.

A review of the detail codes of ethics which have been developed in industry and the professions suggest is two broad generalizations as a basis for the development of a code of ethics on the fact of this organization.

The first generalization is this,, develop your ethical code in such a way that the principles it communicates will be "seven day standards of operation and not seventh day standards." Second: provide some machinery for their enforcement and review, make them principles of action not passive Platitudes.

I have had two or three personal experiences in the development of codes of ethics that have brought the truth of both these generalizations home to me. I would suggest the preparation of a code of ethics into two divisions, in the first put the fundamental statements of what constitutes right or wrong in the relations between members of the organization, and in the second develop ethics in parallel with economics. To state that "Honesty is the best policy" is a fundamental, but more essential is it to make this statement of passive honesty a fighting weapon of truth by shaping it in terms of business practice: such for example as who shall receive commissions and on what basis for the sale of goods and services.

Judge Gary, in the same address from which I have already quoted pays tribute to Theodore Roosevelt for raising business standards by an aggressive policy of action.

It is not fair to the principles of ethics or of economics to assume that a passive policy of honesty will produce business. What we need is a policy of aggressive honesty in creative business. Business is a flowing river, not a placid lake or stagnant pond.

Take a business of manufacturing and distributing goods. A code of ethics may be established in which the manufacturer agrees that it is wrong to do engineering, the jobber that it is wrong to retail goods. This static ethical agreement might stagnate completely the development of an industry in its servce to the public.

If a code of ethics can be devised in which the facts of the numerator are the elements in the industry and the common denominator is the public, the product of this fraction will be an aggressive principle of ethics.

Nor does mere statement of an ideal code of ethics suffice. Machinery is needed to put the code into action to promulgate and develop the truth. I should think it most practical that some system of local non-partisan boards of review be established as the working basis for such an aggressive code of ethics in the great industry which this Council represents. Out of such local boards will come the development of principles of accepted business practice grounded on the sound basis of ethics and economics.

Forcs to Be Put At Work

To make an aggressive policy, the great industrial educational forces of the country need to be put into active co-ordination. There are, in my opinion, four such great educational forces, so constituted and organized that they can be made available:

1. The Industrial press,
2. The engineering and professional schools,
3. The specialized trade and technical associations,
4. The Government and especially the Dept. of Commerce.

The Integrity of American Business

Business needs no apologies. At heart American business is sound in the same degree and for the same reasons that the nation itself is sound. Individually, American business men set high standards for themselves in a very practical way. Specifically, if you ask any so-called successful business man what he looks for first in hiring his associates, he will either answer directly in terms of character or picture his specifications in such a way that character is very evidently the thing he is trying to get at. That the essential quality of individual integrity and character is the basis for creative business enterprise is shown by the fact that, one a man stumbles in full view of the public, the whole structure of business he may have reared tumbles to the ground, because he no longer will be trusted. There are legendary tales of so-called big business men whose "private morals and personal ethics were their own business," but we have had many illustrations of the fact that masterfulness in business can be attained and held only by the sweetness and soundness of personal morality.

It is the collective expression of high ethical standards for the individual which is the foundation for the professional standards of men acting in groups. The structure of business itself rests on credit, which is nothing in the world but a collective appreciation of character.

American industry of the future, with a new vision of service expressed in the practical terms of the professionalizing of industry, is the hope of a reconstructed social and industrial fabric.

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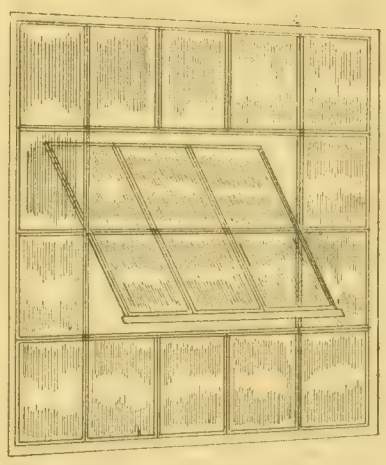
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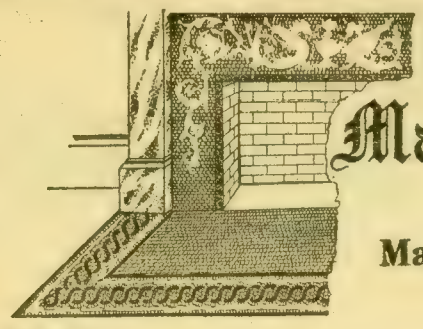
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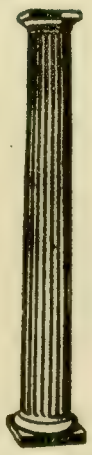
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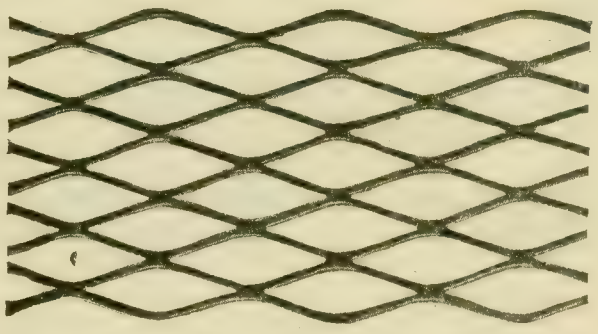
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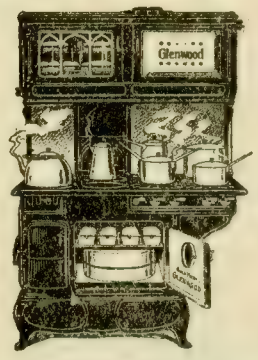
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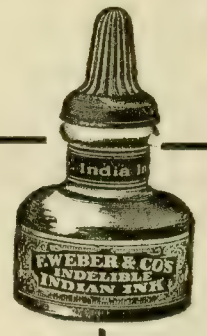
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September 20, 1922

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As The Editor Sees It

ZONING has been discussed and considered from many points of view by cities throughout the country and has had many advocates and many opponents. Although zoning is in the embronic state the Department of Commerce, Washington, has made a survey of the situation and has issued "a standard zoning enabling act, under which municipalities can adopt zoning regulations."

Section 1. *Grant of Power.* For the purpose of promoting health, safety, morals, or the general welfare of the community, the legislative body of cities and incorporated villages is hereby empowered to regulate and restrict the height, number of stories and size of buildings and other structures, the percentage of lot that may be occupied, the size of yards, courts and other open spaces, the density of population, and the location and use of buildings, structures and land for trade, industry, residence or other purposes. Such regulations may provide that a board of adjustment may determine and vary their application in harmony with their general purpose and intent, and in accordance with general or specific rules therein contained.

Section 2. Districts. For any or all of said purposes it may divide the municipality into districts of such number, shape and area as may be deemed best suited to carry out the purposes of this Act; and within such districts it may regulate and restrict the erection, construction, reconstruction, alteration, repair or use of buildings, structures or land. All such regulations shall be uniform for each class or kind of buildings throughout each district but the regulations in one district may differ from those other districts.

Section 3. Purposes in View. Such regulations shall be made in accordance with a comprehensive plan and designed to lessen congestion in the streets; to secure safety from fire, panic and other dangers; to promote health and the general welfare; to provide adequate light and air, to prevent the over-crowding of land; to avoid undue concentration of population; to facilitate the adequate provision of transportation, water, sewerage, schools, parks and other public requirements. Such regulations shall be made with reasonable consideration, among other things, as to the character of the district and its peculiar suitability for particular uses, and with a view to conserving the value of buildings and encouraging the most appropriate use of land throughout such municipality.

Section 4. *Methods of Procedure.* The legislative body of such municipality shall provide for the manner in which such regulations and restrictions and the boundaries of such districts shall be determined, established and enforced, and from time to time amended, supplemented or changed. However, no such regulation, restriction or boundary shall become effective until after a public hearing in relation thereto, at which parties in interest and citizens shall have an opportunity to be heard. At least fifteen days' notice of the time and place of such hearing shall be published in an official paper or a paper of general circulation in such municipality.

Section 5. *Changes.* Such regulations, restrictions and boundaries may from time to time be amended, supplemented, changed, modified or repealed. In case, however, of a protest against such change signed by the owners of twenty per cent. or more either of the area of the lots included in such proposed change, or of those immediately adjacent in the rear thereof extending ——— feet therefrom, or of those directly opposite thereto, extending ——— feet from the street frontage of such opposite lots, such amendment shall not become effective except by the favorable vote of three-fourths of all the members of the legislative body of such municipality. The provisions of the previous section relative to public hearings and official notice shall apply equally to all changes or amendments.

Section 6. *Zoning Commission.* In order to avail itself of the powers conferred by this Act, such legislative body shall appoint a commission to be known as the Zoning Commission to recommend the boundaries of the various original

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districts and appropriate regulations to be enforced therein. Such commission shall make a preliminary report and hold public hearings thereon before submitting its final report; and such legislative body shall not hold its public hearings or take action until it has received the final report of such commission. Where a city plan commission already exists, it may be appointed as the Zoning Commission.

Section 7. Board of Adjustment. Such legislative body may provide for the appointment of a board of adjustment consisting of five members, each to be appointed for three years. Such board of adjustment shall hear and decide appeals from and review any order, requirement, decision or determination made by an administrative official charged with the enforcement of any ordinance adopted pursuant to this Act. It shall also hear and decide all matters referred to it or upon which it is required to pass under any such ordinance. The concurring vote of four members of the board shall be necessary to reverse any order, requirement, decision or determination of any such administraitve official, or to decide in favor of the applicant any matter upon which it is required to pass under any such ordinance or to effect any variation in such ordinance. Every decision of such board shall, however, be subject to review by certiorari. Such appeal may be taken by any person aggrieved or by an officer, department, board or bureau of the municipality.

Such appeal shall be taken within such time as shall be prescribed by the board of adjustment by general rule, by filing with the officer from whom the appeal is taken and with the board of adjustment a notice of appeal, specifying the grounds thereof. The officer from whom the appeal is taken shall forthwith transmit to the board all the papers constituting the record upon which the action appealed from was taken.

An appeal stays all proceedings in furtherance of the action appealed from, unless the officer from whom the appeal is taken certifies to the board of adjustment after the notice of appeal shall have been filed with him that by reason of facts stated in the certificate a stay would, in his opinion, cause imminent peril to life or property, in which case proceedings shall not be stayed otherwise than by a restraining order which may be granted by the board of adjustment or by a court of record on application, on notice to the officer from whom the appeal is taken and on due cause shown.

The board of adjustment shall fix a reasonable time for the hearing of the apeal and give due notice thereof to the parties, and decide the same within a reasonable time. Upon the hearing, any party may appear in person or by agent or by attorney. The board of adjustment may reverse or affirm, wholly or partly, or may modify the order, requirement, decision or determination appealed from and shal make such order, requirement, decision or determination as in its opinion ought to be made in the premises, and to that end shall have all the powers of the officer from whom the appeal is taken. Where there are practical difficulties or unnecessary hardship in the way of carrying out the strict letter of such ordinance, the board of adjustment shall have the power in passing upon appeals, to vary or modify any of the regulations or provisions of such ordinance relating to the use, contruction or alteration of buildings or structures or the use of land, so that the spirit of the ordinance shall be observed, public safety and welfare secured and substantial justice done.

Section 8. Remedies. In case any building or structure is erected, constructed, reconstructed, altered, repaired, converted, or maintained; or any building, structure or land is used in violation of this Act or of any ordinance or other regulation made under authority conferred thereby, the proper local authorities of the municipality, in addition to other remedies, may institute any appropriate action or proceedings to prevent such unlawful erection, construction, reconstruction, alteration, repair, conversion, maintenance or use, to restrain, correct or abate such violation, to prevent the occupancy of said building, structure or land or to prevent any illegal act, conduct, business or use in or about such premises.

Section 9. Conflict With Other Laws. Wherever the regulations made under authority of this Act require a greater width or size of yards or courts, or require a lower height of building or less number of stories, or require a greater percentage of lot to be left unoccupied, or impose other higher standards than are required in any other statute or local ordinance or regulation, the provisions of the regulations made under authority of this Act shall govern. Wherever the provisions of any other statute or local ordinance or regulation require a greater width or size of yards or courts, or require a lower height of building or a less number of stories, or require a greater percentage of lot to be left unoccupied, or impose other higher standards than are required by the regulatons made under authority of this Act, the provisions of such statute, or local ordinance or regulation shall govern.

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Office Building, Sixteenth and Arch streets, Philadelphia. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Engineers, Stone & Webster, 305 Real Estate Trust Building, Philadelphia. Owners, Insurance Co. of North America, 232 Walnut street. Brick, steel and concrete, 20 stories, concrete floors, tile and marble work, metal lath, elevators. Plans in progress. Too early for details.

Buildings, Swanson, South and Bainbridge streets, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Agent, Dr. M. L. Zimmerman, 250 South Broad street, Philadelphia. Brick, steel and concrete. Plans in progress. Too early for details.

Junior High School, Southeast Corner Twenty-third and Federal streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Site purchased in addition to Landreth School. Preliminary plans in progress.

Residence, Olney, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, Dr. W. H. Good, 5309 Rising Sun avenue, Philadelphia. Brick, 2 stories, 32x48 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress.

Residence, Mt. Airy, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, William J. Faux, Harrison Building, Philadelphia. Stone, 2½ stories, 35x80 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress. Will take bids in two weeks.

Residence (alts.), 605 West Upsal street, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Morris Polin, on premises. New porches and sleeping porches, plumbing, electric work, tile work. Plans in progress.

Residence (alts.), 7084 Germantown avenue, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Walter H. Jarden, on premises. General alterations. Plans in progress.

Apartment House, Northeast Corner Forty-seventh and Pine streets, $1,500,000. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Clarence Siegel, Forty-seventh and Larchwood avenue. Brick, steel, stone and concrete, limestone, 6 stories, 386x160 feet, concrete roof, concrete and oak floors, hollow tile, safety treads, roof ventilators, metal weather strips, (8) elevators, waterproofing and dampproofing, iron stairs and work, hollow metal skylights, tile and marble, metal lath, vapor heat, electric light, boiler house and laundry equipment. Owner will build and is sub-letting all contracts.

Office Building, Sixteenth and Moravian streets, Philadelphia. Architects, Huston & Lewis, Presser Building, Philadelphia. Owner, Samuel M. Clement, Jr., West End Trust Building, Philadelphia. Reinforced concrete, brick, cut stone and steel, 6 stories and basement, demolition, slag roof, cement floors, elevators, steam heat, electric light, tile and marble work, kalamein doors, iron work, terra cotta. Architects taking sub-bids.

Factory, Northeast Corner Seventy-third and Elmwood avenue, Philadelphia. Engineers, William F. Newberry Co., Otis Building, Philadelphia. Owners, Spruce Worsted Co., Twenty-fifth and Spruce streets, Philadelphia. Brick, slow burning, 1 story and basement, 75x150 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash and skylights. Plans in progress. Will be ready for sub-bids in a few days.

Pool Room and Apartments (alts.), Amber and Huntingdon streets. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, John W. Fatz, on premises. General alterations, electric lighting. Architect taking sub-bids as soon as possible.

Stores (2), Apartments (4), Sixty-fifth avenue and Broad street, Oak Lane. Architect, R. C. Winter, 11 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, steel and stone ,22x75 feet, 3 stories, slag roof, composition and hardwood floors, vapor heat, electric light, tile work, metal lath, metal bulks, plate glass. Architect will take sub-bids in two weeks.

Residence, Sixty-seventh avenue and Sixteenth street, Oak Lane, Philadelphia. Architect, R. C. Winter, 11 South Sixteenth street, Philadelphia. Owner, V. E. Monaghan, Oak Lane, Philadelphia. Brick, 2 stories, 25x35 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Architect will be ready for sub-bids in one week.

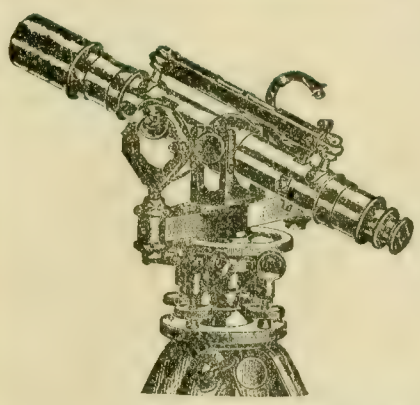
X-Ray Room, Accident Receiving Room and Accident Ward (alts.), Old York road, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Jewish Hospital, on premises. Carpentry, mill work, painting, glazing, pine floors, metal lath, plastering, iron and steel work, plumbing, tile work, hollow metal sash. Architect taking bids due September 22nd.

U. S. Mail Facilities, Reading Terminal, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading R. R. Co., Twelfth and Market streets. Brick, steel and cut stone, 99x73 feet, wood block and asphalt floors, metal lath, elevator, bond, demolition. Owners taking bids due September 21st.

Superstructures, Clifton and Sansom streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Jefferson Hospital, on premises. Brick, concrete, steel and cut stone, 14 stories, main floor and laboratory floors, 97x75 feet, slag roof, cement floors, metal lath, waterproofing, iron work, bond, tile, marble and terrazzo, demolition. Stone & Webster, 132 South Clifton street, taking bids due September 25th.

Building (G) (add.), Hunting Park avenue and Wissahickon avenue, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, E. G. Budd Mfg. Co., on premises. Brick, cut stone and steel, fifth story add., 328x100 feet, slag roof, cement floors, hollow tile, safety treads, tile and marble, rolled steel sash, fire and kalamein doors, bond, floor hardener, iron work. Architects taking bids due September 21st.

Office Building and Bank, 1510-1512 Chestnut street, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Corn Exchange, Second and Chestnut streets, Philadelphia. Brick, cut stone and steel, 6 stories, basement and sub-basement, 138x39 feet, slag roof, cement and maple floors, metal lath, elevators, iron work, bond, fire and kalamein doors, rolled steel skylights, hollow metal sash, tile and marble work, demolition. Architect taking bids due September 26th at 10 A. M.



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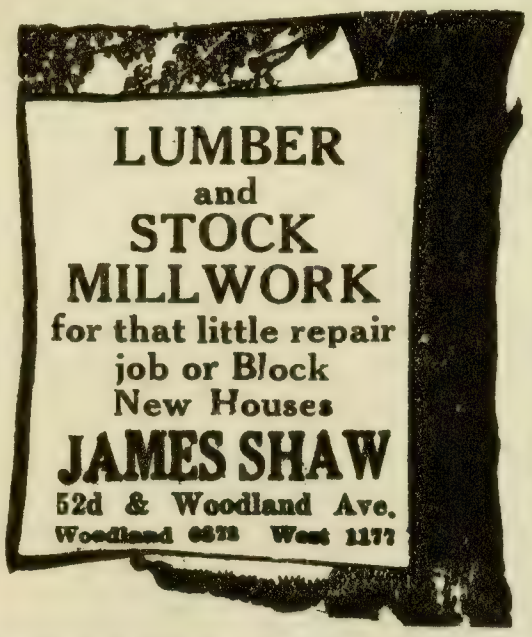
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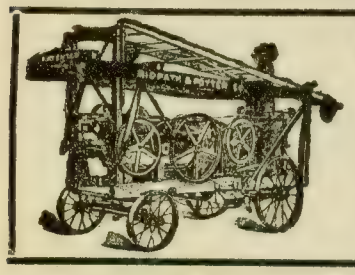
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Design–Shop Details–Fabrication–Erection

Apartments (alts. and add.), 3620-22 North Broad street, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Marquetand & Reinert, care of architect. Brick and steel, 1 story, 18x34 feet, slag roof, oak floors, metal lath, iron work, bond, electric light, tile work (heating reserved). Architect taking bids due September 25th.

Offices (alts.), 5116 Market street, Philadelphia. Architects, Taylor & Pernice, 1738 North Robinson street, Philadelphia. Owner, John H. Oler, Fifty-seventh and Master streets, Philadelphia. Brick work, cement, plastering, steel work, carpentry, mill work, painting, glazing (heating, lighting and plumbing reserved), iron work. Architects taking bids due September 25th.

Switch Factory, Seventh and Willow streets, Philadelphia. Architect, Plant Engineer, Schenectady, N. Y. Owners, General Electric Co., Schenectady, N. Y. Brick, concrete and steel, seventh story add., 175x140 feet, maple and cement floors, metal lath, plastering, terra cotta tile, fire doors, saw-tooth skylights (plumbing, heating, electric work, roof, rolled steel sash and elevator changes reserved). Owners taking bids due as soon as possible.

Funfield Centre, Twenty-second and Sedgley avenue, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, City Hall. Lowest bids submitted by Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, Philadelphia; Item A, $167,000; Item B, $50,000. Robbins Cont. Co., 1137 North Front street, Philadelphia; Item A, $170,000; Item B, $130,000. Plumbing, William White, 2216 Ridge avenue, Philadelphia; Item A, $8,112; Item B, $6,200. Electric, Rose Electric Const. Co., Beach and Brown streets; Item A, $4,055; Item B, $2,460. Heating, L. J. Sommers & Son, 2436 Brown street; Item A, $8,990; Item B, 5,990$.

Sunshine Centre, Sixth and Christian streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau or Recreation, Department of Public Welfare, City Hall. Lowest bidders: Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, $5,350; Mundy Paving & Const. Co., 228 South Alder street, $7,100.

Garage (alts.), Northeast Corner Columbia and Germantown avenues, $3,500. Architect, private plans. Owner, John B. Stetson, Fifth and Montgomery avenue, Philadelphia. General alterations. Owner will build.

Residence, East side Dorcas street, North of Cottman street, $3,500. Architect, private plans. Owner, John Miller, 1424 Aldine street, Philadelphia. Frame, 2 stories, 26x26 feet, shingle roof, hot water heat, electric lighting. Owner will build.

Garages (2), East side Jasper street, South of Clearfield, $6,300 each. Architect, private plans. Owner, F. Dietrich, Jr., 1828 East Schiller street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric light. Owner will build.

Shop (add.), 2719 Reese street, Philadelphia, $5,000. Architect, private plans. Owners, Otto Jones Co., on premises. Brick, 1 story, 32x46 feet, slag roof, electric lighting. Owners will build.

Residence, 445 Paoli avenue, Philadelphia, $5,000. Architect, private plans. Owners, Joseph E. J. McGee, 437 Paoli avenue, Philadelphia. Stone, 2 stories, 28x38 feet, slate roof, hot water heat, electric light. Owner will build.

Residences (12), Chew street, South of Hortter street, and Southwest Corner and Northwest Corner Chew and Montana streets, $618,000. Architect, private plans. Owner, Valentine L. Franz, 1302 West Allegheny avenue, Philadelphia. Brick, 2 stories, 14x28 feet, 11x10 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (19), 1913-31 and 1912-28 Pratt street, $3,800 each. Architect, private plans. Owners, George R. Osborne & Son, 5014 Paul street, Philadelphia. Brick, 2 stories, 15x29 feet, 12x10 feet, hot water heating, electric lighting. Owner will build.

Residences (16), North side Ridgewood street, East of Fifty-sixth, $4,000 each. Architect, private plans. Owner, R. H. Pugh, Ridge avenue and Girard avenue, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, electric lighting. Owner will build.

Rooming House (add.), Southwest Corner Thirty-sixth and Chestnut streets, $3,000. Architect, private plans. Owner, W. H. Gunnis, 4420 Market street, Philadelphia. Brick, 1 story, 20x45 feet, slag roof, electric lighting. Owner will build.

Garages (2), Butler street, West of Seventeenth street, $8,000. Architect, private plans. Owner, Meyer C. Yasken, 978 North Seventh street, Philadelphia. Brick, 1 story, 33x44 feet, 20x141 feet and 15x66 feet, 18x144 feet, slag roof, cement floors. Owner will build.

Residences (18), Third street, North of Ruscomb street, $94,500. Architect, private plans. Owner, Emil R. Stahl ,5209 North Third street, Philadelphia. Brick, 2 stories, 15x40 feet, hot water heat, electric light. Owner will build.

Garage and Office, 256 Roxborough avenue, $6,000. Architect, private plans. Owner, Frank Zinn, 4319 Manayunk avenue, Philadelphia. Brick, 2 stories, 15x25 feet, slag roof, cement floors, electric work. Owner will build.

Store and Storage Building, Northeast Corner Eighty-second and Tinicum avenue, $5,000. Architect, private plans. Owner, J. M. Kennedy, 406 South Van Pelt street, Philadelphia. Brick, 2 stories, 18x90 feet, slag roof, electric lighting. Owner will build.

Residence and Garage (add.), 2402 North Gratz street, $2,000. Architect, private plans. Owner, R. W. Scarborough, 2361 North Gratz street, Philadelphia. Brick, 2 stories, 17x22 feet, slag roof, pine and cement floors. Owner will build.

Residences (44), 2803-49 South Sixth street, 2811-65 and 2810-66 South Sydenham street, Bigler and Sydenham streets, and 1612 West Montgomery avenue, Philadelphia, $200,200. Owner, Frederick S. Park, Seventeenth and Moyamensing avenue, Philadelphia. Brick, 2 stories, 15½x29 feet, 12x10 feet and 14x28 feet, 11x10 feet and 16x38 feet, slag roof, electric light. Owner will build.

Residences (27), Eighteenth and Belfield avenue, $5,000 each. Owner, Edward C. Dreby, 1145 Harrison street, Philadelphia. Brick, 2 stories, 16x42 feet, 11x14 feet and 20x37 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (2), Oakley street, North of St. Vincent street, $4,000 each. Architect, private plans. Owner, James Ovany, 1718 North

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Third street, Philadelphia. Brick and frame, 2 stories, 15x37 feet, hot water heat, electric light. Owner will build.

Residence, Northeast Corner Arendall and Hegerman streets, $2,500. Architect, private plans. Owner, Albert S. Brumbaugh, 57 North Fifty-first street, Philadelphia. Frame, 1 story, 20x25 feet, shingle roof, electric lighting. Owner will build.

Shop, Southeast Corner Germantown and Allegheny avenues, $2,000. Owners, Air Reduction Co., 342 Madison avenue, New York. Concrete, 1 story, 20x29 feet, slag roof, cement floors. Owners will build.

Residences (alts.), 1918 to 1831 Ranstead street, Philadelphia. Architect, Howell Hammond, 1542 Sellers street, Frankford, Philadelphia. Owners, Willis Winchester Co., 25 South Eighteenth street, Philadelphia. Plastering, mill work, painting, glazing, tile work, sheet metal work. Architect taking bids due September 25th.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store Building, 1229 North Broad street, Philadelphia, $130,000. Architect, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Mastbaum Brothers & Fleischer, 1424 South Penn Square, Philadelphia. Brick, steel and cut stone, 4 stories, 160x50 feet, slag roof, maple and concrete floors, steam heat, electric lighting, hollow tile, metal lath, tile work, rolled steel sash, galvanized iron skylights, fire and kalamein doors, metal ceilings, bond, floor hardener, terra cotta, ornamental iron work. Contract awarded to F. W. Mark Cont. Co., Commercial Trust Building.

Auditorium, Germantown avenue and Washington lane, Germantown. Architect, Walter F. Price, 119 South Fourth street, Philadelphia. Owners, Womens Club of Germantown, 6300 Germantown avenue. Stone, 1½ stories and basement, 69x92 feet, demolition, shingle roof, cement and pine floors, dumb waiters, electric lighting, metal lath, iron work. Contract awarded to Samuel Harting, 20 East Johnson street, Germantown.

Residence (alts.), Allen lane and Wissahickon avenue, $3,000. Architect, John Graham, Jr., 5 South Eighteenth street, Philadelphia. Owner, Mrs. Frank Miles Day, on premises. Hollow tile, plastering, carpentry, mill work, painting, glazing, electric work, iron work. Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

Office and Waiting Room Addition, 2433 Germantown avenue. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, W. H. Crane, on premises. Brick, 1 story, 42x13½ feet, slag roof, mineral floors, electric lighting, galvanized iron cornice. Contract awarded to Frank Masi, 1118 Linn street, Philadelphia.

Residence, Sedgwick avenue and Emlen street, Philadelphia, $17,000. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, George B. Rebmann, The Clinton, Philadelphia. Stone, 2½ stories, 42x26 feet, slate roof, oak and pine floors, hot water heat, electric lighting. Contract awarded to Hugh Hamilton, Broad and Somerville streets, Philadelphia.

Store and Residence (alts. and add.), 1155 South Thirteenth street. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Joseph Castrero, on premises. Tapestry brick fronts, 3 stories, 13x14 feet, slag roof, pine floors, hot water heat, electric light, plumbing, tile work, carpentry, mill work, cement work, plate glass, iron work. Contract awarded to Philip Pinto, 1318 Tasker street, Philadelphia.

Storage Building, 615 Kater street, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, I. Blumestein, 615 Kater street, Philadelphia. Brick, 1 story, 20x50 feet, slag roof, concrete floors, hot water heating, electric lighting, plumbing. Contract awarded to Michael Di Mossi, care of owner.

Residence, 819 Carpenter street, Philadelphia, $15,000. Architect, private plans. Owner, Samuel Emlen, Chew and Haines streets, Philadelphia. Brick, 2 stories, 31½x43 feet, 10x9 feet, slag roof, hot water heat, electric light. Contract awarded to I. A. Dunkelberger, 71 Herman street.

Garage, 1234-36 West College avenue, Philadelphia, $10,000. Architect, private plans. Owner, Dennis Mulvehill, 1810 North Twenty-fifth street, Philadelphia. Brick, 2 stories, 13x36 feet, slag roof, steam heat, cement floors. Contract awarded to Clayton Lofland, 231 North Water street.

Public School, Bingham, Palmetto and Bleigh streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Brick, cut stone, steel and granite, 2 stories and basement, 134x113 feet, demolition, composition roof, cement and maple floors, metal weather strip, waterproofing, iron work, bond, hollow metal doors, rolled steel sash, tile and marble work, metal lath. Contracts awarded to: General, Sinclair & Griggs, Medical Arts Building, $253,500. Heating, Austin, Gorham & McIlvain, 1816 Ludlow street, $28,450. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, $12,389. Ventilating, W. Howlett Co., Fourth and Columbia avenue, $560. Electric, Baird Osterhout Co., 2109 Walnut street, $5,200.

Residence, North side Meadowbrook avenue, East of Stroud street, $17,000. Architect, private plans. Owner, P. T. Paschall,

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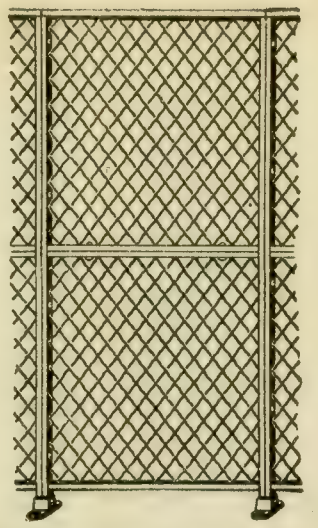
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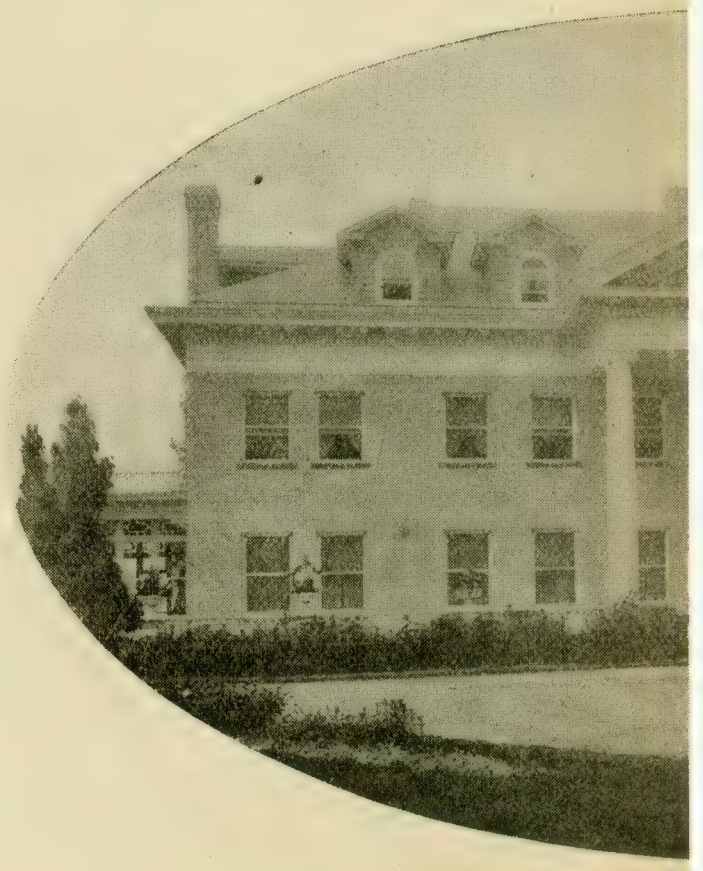
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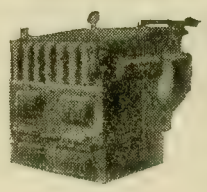
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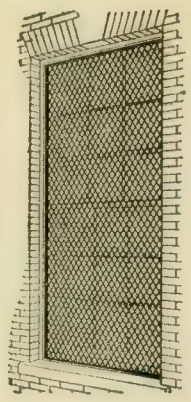
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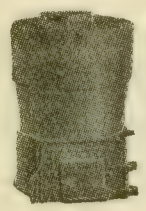
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Chestnut avenue, Philadelphia. Stone, 3 stories, 26x64 feet, slate roof, hot water heat, electric light, oak and pine floors. Contract awarded to Walter Paschall & Son, Paoli, Pa.

Garage (alts. and add.), Southwest Corner Fifth and Allegheny avenue, $9,000. Architect, private plans. Owner, Robert McKay, on premises. Cement floors, carpentry, mill work, plastering, painting, glazing. Contract awarded to Harry Brocklehurst, 512 West Norris street.

Residence, West side Montour street, South of Cottman street, $6,000. Architect, private plans. Owner, Walter H. Emlen, 1036 Unruh street, Philadelphia. Frame, 2 stories, 26x38 feet, shingle roof, hot water heating. Contract awarded to Evert & Goodnow, 7990 Oxford avenue.

Residence, North side Fanshaw street, West of Oakley street, $6,000. Architect, private plans. Owner, Joseph Hoffenthaler, 2157 Reese street, Philadelphia. Frame, 2 stories, 26x38 feet, shingle roof, hot water heating. Contract awarded to Evert & Goodnow, 7990 Oxford avenue.

Shipping Room (add.), 908-10-12 Poplar street, $5,500. Architect, private plans. Owners, United Beef Co., 906 Poplar street, Philadelphia. Brick, 1 story, 42x22½ feet, slag roof, electric work. Contract awarded to Alex P. Lucker, 5136 Parkside avenue.

Factory, 609-11-13 North Franklin street, $6,000. Architect, private plans. Owners, The Ice Cream Box Mfg. Company, on premises. Brick, 2 stories, 25x52 feet, slag roof, cement and maple floors, steel sash. Contract awarded to Farrell-Roth, 122 Diamond street.

Residence and Stores (2), 2920-22 West Diamond street, $5,000. Owner, R. Hershwald, on premises. Brick, 3 stories, 16x24 feet, 12½x24 feet, slag roof, oak and pine floors. Contract awarded to Bass & Co., Ltd., 713 Walnut street, Philadelphia.

Residence (add.), 4453 Frankford avenue, $5,500. Architect, private plans. Owner, Benjamin Black, 4437 Frankford avenue, Philadelphia. Brick, 2 stories, 16x33 feet, third story, 16x12 feet, slag roof, yellow pine floors, electric light. Contract awarded to Shechtman Brothers, 1540 North Sixth street, Philadelphia.

Residences and Stores (2), 4835-37 Orthodox street, $4,500 each. Owner, H. Korona, 226 Orthodox street, Philadelphia. Brick, 2 stories, 14x37½ feet, 10x7 feet, slag roof, electric work. Contract awarded to J. F. Kazmurczak, 2385 Orthodox street.

Business Building (alts. and add.), Northwest Corner Thirteenth and Columbia avenue, $3,000. Owner, Charles Rehfuss, 5823 North Broad street, Philadelphia. Brick, 2 stories, 18x10 feet, general alterations. Contract awarded to J. Frank Grant, 1625 North Thirteenth street, Philadelphia.

Store and Two-Family Residence (add.), 2845 Germantown avenue, $4,000. Architect, private plans. Owner, Max Richman, 2832 Germantown avenue, Philadelphia. Brick, 1 story, 4x27 feet add., slag roof, electric lighting. Contract awarded to Hyman Bragan, 3822 Brown street, Philadelphia.

Residence and Store (alts.), 143 West Girard avenue, $3,800. Architect, private plans. Owner, M. Black, on premises. General alterations. Contract awarded to Isadore Schechtman, 1540 North Sixth street.

Open Shed, East side Delaware avenue, South of Buckius street, $2,000. Owners, Henry Hitner & Son, 4501 Richmond street, Philadelphia. Frame, 1 story, 35x140 feet, slag roof. Contract awarded to Theodore I. Ette, 4501 Richmond street, Philadelphia.

Residences (2), 1303-05 Venango street, $16,000, and **Stores and Offices (alts.)**, 1307-09-11 Venango street, $4,000. Owner, Harry Bradley, 1301 Venango street, Philadelphia. Brick, 3 stories, 15x25 feet, 10x10 feet, hot water heating, electric lighting ,general alterations. Contract awarded to Charles T. Clark, Sedgley and Germantown avenues.

Theatre (alts.), 1021 Chestnut street, Philadelphia, $8,000. Architect, Herbert J. Krapp, 116 East Sixteenth street, New York. Owners, Shubert's Vaudeville, on premises. General alterations, new brick wall, plastering, kalamein doors. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Residences (4), East side Fifth street, South of Ruscomb, $7,000 each; **(1)**, Fifth and Ruscomb streets, $8,000. Architect, private plans. Owner, Sol Hopkins, Southwest Corner Sixtieth and Pine streets, Philadelphia. Brick, 2 stories, 15x60 feet, 15x49 feet,

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12x10 feet, slag roof, hot water heat, electric light, tile work, oak and pine floors. Contract awarded to Philip Savar, 718 Snyder avenue, Philadelphia.

Two-Family Residence (alts.), 4327 Baltimore avenue, $2,775. Architect, private plans. Owner, James B. Reed, 5005 Frankford avenue, Philadelphia. General alterations. Contract awarded to Frank Esham, 5521 Woodland avenue, Philadelphia.

Church (alts.), Southwest Corner Marshall and Susquehanna avenue, $2,000. Architect, private plans. Owners, Susquehanna Presbyterian Church, on premises. General interior alterations. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue

Garage, 2029 East Willard street, $2,000. Architect, private plans. Owner, Caroline Campbell, on premises. Brick, 1 story, 16x75 feet, slag roof, cement floors. Contract awarded to John George, 3863 Sepviva street.

Residence, North side Rowland street, East of Fuller street, $3,300. Architect, private plans. Owner, G. Popplewell, 7031 Van Dyke street, Philadelphia. Frame, 2 stories, 18x14 feet, 12x10 feet, oak and pine floors. Contract awarded to J. A. Hand, 2511 Rhaun street, Philadelphia.

Garage, 626 South Sixty-second street, Philadelphia, $2,500. Architect, private plans. Owner, Mrs. L. Friday, on premises. Brick, 1 story, 60x17 feet, slag roof, cement floors. Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

Residence and Store (alts.), 1503 West Venango street, $2,112. Architect, private plans. Owner, William Herbert, 1501 West Venango street, Philadelphia. General alterations. Contract awarded to John Shuster, 3552 North Fifteenth street, Philadelphia.

Church (alts. and add.), Lancaster and Overbrook avenues, Overbrook. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Memorial Church of St. Paul, on premises. Brick, 1 story add., 14x28 feet, general alterations. Contract awarded to S. W. Hopman & Sons Co., Moylan, Pa.

Store (alts.), 1214 Chestnut street, Philadelphia, $5,500. Architect, private plans. Owners, George Allen, Inc., 1214 Chestnut street, Philadelphia. New store front, plate glass, store fixtures. Contract awarded to Basch & Co., Ruan and Tackawanna streets.

Residence, West side Ferndale, North of Napfle street, $4,700. Architect, private plans. Owner, Edmond Gallagher, 1034 Hellerman street, Philadelphia. Frame and stone, 2½ stories, 18x34 feet, shingle roof, hot water heat, electric light. Contract awarded to Joseph Maulbecker, 1856 East Westmoreland street.

Garage, Southeast Corner Marston and Kershaw streets, Philadelphia, $6,300. Architect, private plans. Owner, Henry Moncher, 1334 North Hollywood street, Philadelphia. Brick, 1 story, 16x100 feet, slag roof, cement floors, electric light. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Residence (alts. and add.), Southwest Corner Rockland and Hutchinson, $4,500. Architect, private plans. Owner, L. Brenner, on premises. Brick, 1 story, 15½x17 feet, slag roof, electric lighting. Contract awarded to Joseph Marshall, 2323 South Marshall street.

Lumber Storage Shed, South side Sedgley avenue, West of Twenty-ninth street, $3,000. Architect, private plans. Owner, William M. Lloyd Co., on premises. Frame and concrete, 1 story, 20x137 feet, shingle roof. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Garage (add.), 4717 Ludlow street, Philadelphia, $12,000. Architect, private plans. Owner, J. C. Phillips, 4716 Market street, Philadelphia. Brick, 2 stories, 20x80 feet, slag roof, steam heat, electric light, cement floors, steel sash. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Tenement (alts.), 1014 North Sixty-third street, Philadelphia, $3,000. Architect, Thomas J. Carroll, Philadelphia. Owner, W. H. Guillium, 18 Colwyn road, Cynwyd, Pa. General alterations. Contract awarded to Louis E. Faulkner, 14 North Paxon street.

Store and Residence (add.), Northwest Corner Sixteenth and Fishers avenue, $5,000. Architect, private plans. Owner, Paul Hartnett, on premises. Brick, 1 story, 12x12 feet, slag roof, electric light. Contract awarded to Stokes Brothers, 6723 Musgrave street, Philadelphia.

Residence (alts. and add.), 1801 Mt. Vernon street, $3,400. Architect, private plans. Owner, Mrs. H. Fennerty, 1617 Mt. Vernon street, Philadelphia. Brick, 1 story, 11x12 feet, slag roof, electric light. Contract awarded to W. H. Davis, 149 North Fifteenth street, Philadelphia.

PENNSYLVANIA Construction News

Stores, Apartment and Garage, Oakmont, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Mr. Deaveshall, care of architect. Stone, 3 stories, 181x80 feet. Preliminary plans in progress. Too early for details.

Residence and Garage, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Dr. E. M. Massinger, 307 Main street, Phoenixville, Pa. Stone, 2 stories, 48x28 feet, asbestos roof, oak and tile floors (heating, plumbing and electric work reserved), terra cotta. Plans in progress.

Residence (alts. and add.), Market street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owner, C. L. Thornburg, Market street, Bethlehem, Pa. Brick, 2 stories, 25x22 feet, slate roof, hardwood floors, general interior and exterior alterations. Preliminary plans in progress.

Moving Picture Theatre and Stores, Quakertown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Peoples Theatres, Inc., J. J. Jordan, 829 Hamilton street, Allentown, Pa. Brick, fireproof, 1 story, 55x180 feet. Plans in progress.

Theatre and Store (alts. and add.), Slatington, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, People's Theatres, Inc., J. J. Jordan, 829 Hamilton street, Allentown, Pa. Brick, fireproof, 1 story, 40x150 feet. Plans in progress.

Store (alts. and add.), 525 North Sixth street, Allentown Pa, Architect, Charles

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Grossart, 603 Hamilton street, Allentown, Pa. Owner, Leib Kramer, on premises. Copper front, 1 story, 11x30 feet, rubberoid roof, pine floors, tile work, plate glass, rolled steel skylights, metal ceilings. Plans in progress.

Junior High School, Annville, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owners, School Board, Annville, Pa. Architect selected.

Bank (alts. and add.), Carlisle, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Farmers' Trust Co., W. Stuart, president, Carlisle, Pa. Brick. Too early for details.

Residence, Lititz, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, Wayne Fahnestock, Lititz, Pa. Stone and stucco, 2½ stories, 44x28 feet, slate or tile roof, hardwood floors, electric light, tile and marble work. Plans in progress.

Garage, 1135 Mulberry street, Harrisburg, Pa. Architect, T. H. Hamilton, Spooner Building, Harrisburg, Pa. Owners, J. B. & H. Friedberg, Second street, Harrisburg, Pa. Steel, concrete and brick, 2 stories, 70x90 feet, slag roof, concrete floors, electric lighting. Plans in progress.

Residence, Cloverly Heights, Harrisburg, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owner, M. L. Fisher, 1122 Green street, Harrisburg, Pa. Stucco, 2½ stories, 24x32 feet, composition shingle roof, hardwood floors, hot air heat, electric light, tile work. Owner will be ready for bids this week.

Stores and Apartments (4) and Garage, Sixty-ninth Street Section, Upper Darby, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, R. G. Cox, 46 Chatham road, Upper Darby, Pa. Brick and hollow tile, 3 stories, 90x84 feet, slag roof, hardwood and cement floors, steam heat, electric lighting, tile and marble work, plate glass, metal bulks. Owner is taking sub-bids.

Residence, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, F. H. Barras, 4045 Green street, Philadelphia. Frame and stucco, 2½ stories, 25x33 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Will be ready for bids in a few days.

Bungalow, Mountainville, Pa. Architect, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owner, R. Peter Schultz, Allentown, Pa. Brick, 1½ stories, 50x28 feet, shingle roof, pine floors, electric light, pipeless heat. Architect will be ready for bids in ten days.

Elks' Home, 75 South Main street, Phillipsburg, N. J. Architect, M. W. Shnyder, Easton Trust Building, Easton, Pa. Owners, B. P. O. E. Lodge 395, care of B. E. Lighe, Phillipsburg, N. J. Brick, concrete, steel, 2 and 3 stories, 132x77 feet, slate or slag roof, tile and maple floors, vapor heat, electric light, tile, marble and terrazzo work, metal lath, freight elevators, dumb waiters, waterproofing and dampproofing, ornamental terra cotta. Owner will be ready for bids next week.

Garages (2), Easton, Pa., $2,000. Owner, W. E. Speer, 115 Northampton street, Easton, Pa. Brick, 1 story, 19x22 feet, slate or tile roof, concrete floors, vapor heat, electric light. Owner will build.

School, Penn Square, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Penn Square District, East Noriton Township, Pa. Brick, 1 story, slag and slate roof, pine and cement floors, plumbing, hot air heat, electric light and fixtures, slate work, water pumping system. Owners will take new bids in a few weeks.

Residence, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, D. F. O'Hara, 4045 Green street, Philadelphia. Stone, 2½ stories, 26x38 feet, garage, 1 story, 20x24 feet, shingle roof, hardwood and cement floors, hot water heat, electric light, tile work. Architect will take bids in a few days.

Residence, Oakmont, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, R. B. Snyder, 5835 Chester avenue, Philadelphia. Frame and stucco, 2½ stories, 35x24 feet, shingle roof, pine floors, pipeless heating, electric light, tile work. Architect taking bids due September 25th.

Residence (twin), Allentown, Pa. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, hollow tile and stucco, 2½ stories, 40x120 feet, tile roof, hardwood floors, hollow tile, vapor heat, electric light, tile and marble work. Architect will take bids in one week.

Store, Allentown, Pa., $45,000. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owner, Max Rosenfeld, 634 North Front street, Allentown, Pa. Brick, steel, 2 stories and basement, 53½x120 feet, slag roof, pine floors, vapor heat, electric light, tile and marble work, metal lath, rolled steel sash, terra cotta. Architect taking bids due as soon as possible.

Residences (2), Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, J. J. Shunk, Bethlehem, Pa. Brick, stucco, 2½ stories, 26x35 feet, slate roof, hardwood floors, electric light, tile work. Owner sub-letting.

Factory, Mohr and Allen streets, Allentown, Pa. Architect, Charles M. Grossart, 603 Hamilton street, Allentown, Pa. Owner, J. Sacks, Allentown, Pa. Brick, steel, 2 stories, 118x48 feet, rubberoid roof, pine floors, vapor heat, electric light. Owner taking tub-bids.

Residence, Prospect avenue, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, C. T. Powell, 516 Prospect avenue, Bethlehem. Brick, 2½ stories, 29x30 feet, slate roof, hardwood floors, electric light, tile work. Architect ready for bids.

Residences (2), Lafayette street, Easton, Pa., $30,000. Architect, private plans. Owner, W. E. Speer, 115 Northampton street, Easton, Pa. Brick, 2½ stories, 40x31 feet, 30x40 feet, slate or tile roof, hardwood floors, vapor heat, electric light. Owner will build.

School (high school), Bridgeport, Pa. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, Board of Education, Bridgeport, Pa. Brick, cut stone, steel and stucco, 2½ stories, 164x69 feet, composition, tin and slag roof, alternate asbestos shingle roof, cement and pine floors, metal lath, rolled steel skylights, bond, iron stairs and iron work, waterproofing. Architect taking bids due September 26th at noon.

Home Economics Building, Westtown, Pa. Architect, Walter F. Price, 119 South Fourth street, Philadelphia. Owners, Westtown Boarding School, Westtown, Pa. Brick, 2½ stories, 92¾x28¼ feet, slate roof, pine floors, hollow tile, dampproofing, tile and marble, concrete work, copper skylights, electric light, vapor vacuum heating. Architect taking bids due September 23rd at noon.

School, North Whitehall Township, Pa. Architects, Jacoby & Everett, Commonwealth Building, Philadelphia. Owners, North Whitehall Township School Board, Ironton, Pa. Brick, 2 stories, 12 rooms, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work, safety treads, roof ventilators, waterproofing and dampproofing. Architects taking bids due September 25th.

Residence, York road, above Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Herman Harting, 1356 Jerome street, Philadelphia. Stone, 3 stories, 30x50 feet, shingle roof, electric lighting, hardwood floors, tile work. Architect taking bids due September 28th at noon.

Bank, Hummelstown, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, Hummelstown National Bank, U. L. Balsbaugh, premises. Brick or stone, 1 story, 40x45 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, metal window guards, ornamental iron work. Architects taking bids.

School, Ashbourne, Pa. Architect, Herbert C. Wise ,1412 Chestnut street, Philadelphia. Owners, School District of Cheltenham Township, Elkins Park, Pa. Lowest bidders: F. L. Hoover & Son, 1023 Cherry street, Philadelphia, $174,675; William Linker Co., 735 Cherry street, Philadelphia, $181,500. Plumbing, John Borden & Bro., 637 North Nineteenth street, $7,250. Heating, J. H. Hutchinson, 1020 Callowhill street, $23,997. Electric, Noel H. Van Rockens, $4,835.

Municipal Building, Township of Upper Darby, Pa. Architect, Willis A. Hall, Post Office Building, Upper Darby, Pa. Treatment of grounds, cement walks and driveways, lighting fixtures, illumination of grounds, interior painting and decorating. Owners, Building Committee, Township of Upper Darby, Edward Ogden, G. W. Wright, Edward T. Bartlett, Upper Darby, Pa. Owners taking bids due October 2nd at 6 P. M. Deposit, $15. Refund, $10.

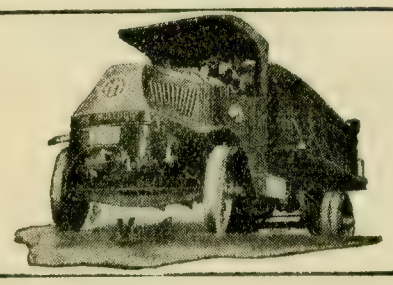
School (open air), Hazleton, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Hazleton School Board, M. Evans, secretary, Hazleton, Pa. Brick, 1 story, 60x100 feet, slate roof, hardwood floors, electric light. Too early for details.

Residences (10), Retreat, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre. Owners, Central Poor District, George Brown, Franklin street, Wilkes-Barre. Concrete, 2 stories, 40x160 feet, slag roof, pine floors, electric light. Plans in progress.

Dauphin County Memorial, Elizabethtown, Pa. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Masonic Home, Elizabethtown, Pa. Architect taking bids due September 26th at 10 A. M.

Residence, Wilkes-Barre, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Westminster Presbyterian Church, Wilkes-Barre. Frame, 2½ stories, 28x36 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Double Residence, Kingston, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame, 2½ stories, 38x38 feet, shingle



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roof, pine floors, hot air heat, electric light. Plans in progress.

School (high), Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Plains School Board ,William Robertson, Plains, Pa. Brick, 2 storiese, 150x170 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, hollow tile, tile and marble work, roof ventilators, rolled steel skylights, waterproofing, dampproofing, ornamental iron work. Owners ready for bids due October 9th.

High School, Wyoming, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Wyoming School Board, W. Reynolds, secretary, Wyoming, Pa. Brick, 2 stories, 60x70 feet, slag roof, hardwood floors, tile work (heating, plumbing and electric work reserved). Owners ready for bids due October 3rd.

Factory (alts. and add.), 112 Adams avenue, Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, Clark & Snover Co., on premises. Brick and frame, 2 and 5 stories, irregular size, mastic floors, steam heat, electric light, metal lath, freight elevators, hollow metal sash, fire doors, waterproofing. Architect taking bids due September 30th.

Residence, Dunmore, Pa. Architect, Vincent Russoniello, Scranton Life Bldg., Scranton, Pa. Owner, Mr. N. Coyer, Dunmore, Pa. Hollow tile and stucco, 2½ stories, 32x42 feet, Spanish tile roof, hardwood floors, vapor heat, electric light, tile work. Owner taking general bids.

Store, Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owner, Samuel Steckel, 6 Lackawanna avenue, Scranton, Pa. Frame, 1 story, 100x40 feet, shingle roof, pine floors, steam heat, electric light. Owner will take bids.

Apartments (7), Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owner, E. Feldman, Scranton, Pa. Stucco, frame, 3 stories, 80x41 feet, slag roof, hardwood floors, steam heat, electric light. Owner and architect ready for bids.

Garage, Pittston, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton. Owners, Gillespie & Moran, Pittstown, Pa. Steel, fireproof, 1 story and basement, 150x120 feet, built-up roof, concrete floors, steam heat, electric light, hollow tile, rolled steel skylights, roof ventilators. Owner sub-letting.

Residence and Store, Scranton, Pa. Architect, V. Russoniello, Scranton Life Building, Scranton, Pa. Owner, Joseph Long, 1103 Amherst street, Scranton, Pa. Frame and stucco, 2 stories and basement, 36x40 feet, slag roof, hardwood floors, steam heat, electric light. Owner taking sub-bids.

Garage, Scranton, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, name withheld. Hollow tile and brick, 1 story, 90x80 feet, slag roof, concrete floors, steam heat, electric light, hollow tile, hollow metal sash, fire doors, waterproofing. Plans in progress.

Garage, Nanticoke, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, name withheld. Hollow tile, brick, 2 stories, 40x100 feet, slag roof, concrete floors, hollow tile, steam heat, electric light, freight elevators, hollow metal sash, fire doors, waterproofing. Plans in progress.

Store, Washington street, Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owners, New Wall Paper Co., 116 North Washington street, Scranton. Fireproof, steel, brick, 4 stories, 80x158 feet, slag roof, hardwood floors, electric light, tile and marble work, metal lath, copper front, roof ventilators, skylights, ornamental iron work. Plans in progress.

Sales Warehouse, Pittsburgh, Pa. Architects, Howley & Coon, Traders' Bank Building, Scranton, Pa. Owners, Fairmount Cream Co., Omaha, Neb. Steel, reinforced concrete, 5 stories and basement, 72x100 feet, concrete floors, steam heat, electric light, tile work, freight elevators, rolled steel sash, fire doors, skylights, waterproofing and dampproofing, floor hardener, ornamental iron work. Plans in progress.

School, Clarks Summit, Pa. Architect, H. C. Rutherford, 316 Washington street, Scranton, Pa. Owners, Clarks Summit School District, W. Widdowfield, secretary, Clarks Summit, Pa. Brick, stone, 2 stories and basement, 155x152 feet, slag roof, hardwood floors, metal lath, tile work (heating, plumbing and electric work reserved), rolled steel skylights. Owners taking bids due September 25th.

Eagles Home, Wilkes-Barre, Pa., $100,000. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Order of Eagles, care of architects. Semi-fireproof, 3 stories, 100x100 feet, built-up roof, hardwood floors, steam heat, electric light, hollow tile, metal lath, dumb waiters, tile, marble and terrazzo work, rolled steel sash and skylights, fire doors, roof ventilators, waterproofing, iron stairs, ornamental iron work. Owner will take bids in two weeks.

Residence, Kingston, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owner, Dr. A. W. Grove, Kingston, Pa. Tile and stucco, 2½ stories, 34x38 feet, slate roof, hardwood floors, electric light, tile work. Architect taking bids.

High School and Gymnasium, Parson, Pa. Architect, R. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Parson School Board, Robert Wallace, secretary, Parson, Pa. Brick, 2 stories and basement, 99x110 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved), hollow tile. Owner ready for bids due September 27th.

Residence, Kingston, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, H. C. Rippard, care of architects. Frame and stucco, 2½ stories, 25x32 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architects ready for bids.

Warehouse, Wilkes-Barre. Architect, T. H. Atherton, Coal Exchange Building, Wilkes-Barre. Owners, Lawrence Meyers Estate, care of architect. Steel, brick, 4 stories, 60x120 feet, slag roof, pine floors, electric light, freight elevators, fire doors, waterproofing and dampproofing, iron stairs. Owner taking sub-bids.

Vocational School, Mill City, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owners, Mill City School Board, W. J. Agrey, Mill City, Pa. Frame, 2 stories, 70x86 feet, shingle roof, pine floors, steam heat, electric light, roof ventilators. Plans in progress.

Pennsylvania Contracts Awarded

Chapel, near Lansdale, Pa. Architect, Paul Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Mary's Institute for the Blind, care of Cardinal D. J. Dougherty, Eighteenth and Race streets, Philadelphia. Brick, cut stone, steel and plaster, 1½ stories, 38x92 feet, slate roof, pine floors, electric lighting, metal lath, tile and marble work, terrazzo, bond, iron work (heating and plumbing reserved). Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Residence and Garage, Mason avenue, Drexel Hill, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, F. L. Meagher, 122 South Fifty-first street, Philadelphia. Stone and stucco, 2½ stories, 39x29 feet, and 1½ stories, 20x22 feet, shingle roof, oak and pine floors, iron work, bond, electric lighting, warm air heating. Contract awarded to A. R. Alessi, Darby, Pa.

Residence, Edmund avenue, Drexel Hill, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, C. B. Wood, care of architect. Frame and stucco, 2½ stories, 23x39 feet, shingle roof, oak and pine floors, hot water heat, electric light, bond, iron work. Contract awarded to Carmine Mattia, 433 North Sixty-fifth street, Philadelphia.

Orphanage (add.), Abbottstown, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, Paradise Protectorate, Rt. Rev. P. J. McDevitt, Harrisburg, Pa. Brick and stone, 2 stories and basement, 55x110 feet, slate roof, pine floors, steam heating, electric lighting, tile and marble work. Contract awarded to John Stapf, 2246 North Third street, Harrisburg, Pa., but not yet signed.

School, Sunbury, Pa. Architect, Ralph M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Sunbury School Board, Robert Worrell, secretary, Sunbury. Brick, 2 stories, 80x106 feet, composition roof, hardwood floors, hollow tile, electric light, roof ventilators. Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

Store and Office, 913 Hamilton street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, T. T. Keiter, 909 Hamilton street, Allentown, Pa. Brick, steel, tile, 3 stories, 22x110 feet, built-up roof, yellow pine floors, steam heat, electric light, metal lath, tile work, rolled steel sash, hollow tile, terra cotta. Contract awarded to Schaeffer & Laudenslager, Allentown, Pa.

Residence, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, William N. S. Carl, care of architects. Brick and stone, 2 stories, 37x16 feet 9 inches, 33x16 feet 5 inches, composition roof, hardwood floors, electric light, tile work, porches. Contract awarded to A. E. Nichols, Commonwealth Building, Allentown.

Store and Apartment, 637 Broadway, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Mr. Roponbo, care of architect. Brick, 3 stories, 20x45 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded to Philip Rowea, Bethlehem, Pa.

Residence, Wynnewood, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Mrs. H. Parr Dole, care of architect. Stone, 2½ stories, 48x61 feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile and marble work. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Residence (alts. and add.) to Apartment, Lancaster, Pa. Architect, H. Y. Schaub, Imperial Building, Lancaster, Pa. Owner, Dr. Twitmire, 130 East Chestnut street, Lancaster, Pa. Brick, 1 story, 30x42 feet, slag roof, hardwood floors, hot water heat, electric light. Contract awarded to Luther Wohlsen, 42 Parkside avenue, Lancaster.

Residence, Lucknow, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Miss Caroline Keefer, Riverside Drive, Harrisburg, Pa. Brick, stucco, 2½ stories, 32x44 feet, shingle roof, hardwood floors, vacuum heat, electric lighting. Contract awarded to W. E. Bushey, Lemoyne, Pa.

Bungalow, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Jacob W. Wagoner, 401 Fifth avenue, Royersford, Pa. Brick and stone, 1½ stories, 27x34 feet, asbestos roof, yellow pine floors, steam heat (heating, plumbing and lighting reserved). Contract

awarded to A. L. Brockerman, Limerick Square, Pa.

Store and Office, Adams street, Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Union Bank Building, Scranton, Pa. Owner, Walter Rehrig, care of architects. Brick, stone, reinforced concrete, 5 stories, 100x41 feet, slag roof, concrete and hardwood floors, electric light, metal lath, tile and terrazzo work, elevators, roof ventilators, copper work. Contract awarded to Beilman & Son, 220 Ash street, Scranton.

Residence, Clarks Summit, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, Gordon Taylor, care of architect. Frame, stucco, 2 stories, 32x40 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Contract awarded Eugene Tannler, 307 Neptune Place, Scranton.

Residence, Scranton, Pa. Architect, V. Russoniello, Scranton Life Building, Scranton, Pa. Owner, T. Dainto, Scranton, Pa. Frame, 2 stories, 32x38 feet, shingle roof, hardwood floors, vapor heat, electric light. Contract awarded to Thomas Bisignani, Scranton, Pa.

Double Residence, Nanticoke, Pa. Architect, G. T. Price, 409 Miller Building, Scranton, Pa. Owners, Jacob & Jenninger, Nanticoke, Pa. Frame, 2½ stories, 32x42 feet, composition and shingle roof, pine floors, hot water heat, electric light, tile work. Contract awarded to Quoss Brothers, Nanticoke, Pa.

School (alts. and add.), Aristes, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Conyngham Township, Edward J. Britt, on premises. Brick, 2 stories and basement, 80x64 feet, hardwood floors, electric light, tile work, general alterations. Contract awarded to E. R. Bastren Co., Mt. Carmel, Pa.

Seminary, Scranton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, St. Mary's Seminary, care of Bishop Hoban, Scranton, Pa. Limestone, stone and brick, 3 stories, hardwood floors, metal lath, electric light, tile, marble and terrazzo work. Contract awarded to Boland Brothers, 427 Spruce street, Scranton.

Warehouse (add.), Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Robbins Lumber Co., care of architects. Brick, steel, 3 stories, 45x62 feet, built-up roof, maple floors, electric light, fire doors. Contract awarded to J. A. Schmitt & Sons, Simpson street, Wilkes-Barre.

Loading Shed, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Robbins Lumber Co., care of architects. Fireproof, 1 story, 18x42 feet, copper work, iron work. Contract awarded to Wilkes-Barre Iron Works, Coal Exchange Building, Wilkes-Barre, Pa.

School, Minersville, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Minersville School Board, J. Blazejewski, Minersville, Pa. Frame, 2 stories, irregular size, steam heat, electric light, slag roof, hardwood floors. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

High School, Freeland, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Freeland School Board, Freeland, Pa. Brick, 2 stories and basement, 150x100 feet, slag roof, hardwood floors, electric light, metal lath, tile work, hollow tile, roof ventilators, rolled steel skylights. Contract awarded to James Boyle, Freeland, Pa.

New Jersey Construction News

Residence, Somers Point, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Mrs. Robert Craighead, care of architect. Architect taking bids due September 26th.

Store (alts. and add.), 1914 Atlantic avenue, Atlantic City, N. J. Architect, A. S. Amodio, Segal Building, Atlantic City, N. J. Owners, E. Cooper & Sons, on premises. Architect taking bids due September 20th

Radial Brick Chimney, Woodbine, N. J. Architect, Division of Architecture and Construction of the Department of Institutions and Agencies, 137 West Hanover street, Trenton, N. J. Owners, Commissioner of Institutions and Agencies, 137 West Hanover street, Trenton, N. J. Owners taking bids due October 10th at noon.

Theatre, Arcade and Store Building, Kentucky avenue and Boardwalk, Atlantic City, N. J. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Co. of America, 1218 Market street, and Guilford's, Inc., 1038 Market street, Philadelphia. Brick, steel, concrete, stone and terra cotta, 170x190 feet. Preliminary plans in progress. Too early for details.

Terminal Buildings, Mechanic street, Camden, N. J. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets, Philadelphia. Steel, brick and concrete, office building, 42x115 feet, concourse, 328 feet long, 105 feet wide, power house, brick, Y. M. C. A. building, offices, restaurant and waiting rooms, driveways, platforms, shelters, etc. Plans completed.

Residence, Brunswick, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Louis Brandt, 20 Belmont avenue, Trenton, N. J. Brick, 2½ stories, 16x50 feet, slate roof, hardwood and pine floors, hot water heat, electric light. Plans in progress.

Store and Apartment, Greenwood street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Philip Morgan, 1200 Greenwood avenue, Trenton, N. J. Frame, 2 stories, 35x75 feet, shingle roof, pine floors, hot water heat, electric light, tile work, metal bulks. Plans in progress.

Junior High School, Camden, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Board of Education, Camden, N. J. Brick, stone, concrete and steel. Preliminary plans in progress. Too early for details.

Pumping Station, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, Commissioner Feel, Trenton Water Works, Trenton, N. J. Concrete, stone, 1 story, 40x80 feet, slate roof, concrete floors, electric light. Owners taking revised bids due September 29th.

Storage Building, Trenton, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owners, County of Mercer, care of architects. Brick, steel, 2 stories, 73x77 feet, slag roof, concrete floors, electric light, rolled steel sash, fire doors, floor hardener, iron stairs, waterproofing and dampproofing. Architects taking bids due September 26th.

Church, West State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Christian Science Church, care of architect. Frame and brick, 1 story, 40x80 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved), tile work, ornamental plaster. Architect taking bids due September 22nd.

Stores and Apartment Building, Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Ernest Beyer, Atlantic City, N. J. Brick, steel and concrete, 5 stories. Architect taking bids due September 25th.

Office and Stores (alts. and add.), 38 East State street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owners, Fisher Estate, Edward Fisher, care of architect. Steel, semi-fireproof, 4 stories, 19x65 feet, slag roof, pine floors, hot water heat, electric light, metal lath, hollow tile, tile work, rolled steel sash, roof ventilators, waterproofing, dampproofing. Architect taking bids due September 27th.

New Jersey Contracts Awarded

Stable (add.), 810-34 Carpenter street, Camden, N. J. Architect, private plans. Owners, Garden State Dairies, Supplee-Wills-Jones, Twenty-sixth and Oxford streets, Philadelphia. Brick and steel, 2 stories, 193x57 feet, slag roof, cement floors, metal lath, waterproofing, iron work, demolition. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street, Philadelphia.

Boiler Room, North Broad street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owners, Castania Dairy, North Broad street, Trenton, N. J. Brick, 1 story, 47x32 feet, slag roof, concrete floors, electric light, rolled steel sash. Contract awarded to S. W. Mather & Son, Greenwood and Canal, Trenton.

Club House (add.), 168 West State street, Trenton, N. J. Architects, Kleman & Kaplan, First National Bank Building, Trenton. Owners, Progress Club, Louis Kaplan, secretary, on premises. Brick, 2 stories, 40x90 feet, slag roof, hardwood floors, electric light, tile and marble work, metal lath, hollow tile, roof ventilators, rolled steel skylights. Contract awarded to J. H. Morris & Co., Broad and Hudson streets, Trenton, N. J.

Delaware Construction News

Bank and Office Building (alts.), Twenty-first and Market streets, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Wilmington-Brandywine Bank, care of architects. General interior alterations, hardwood floors, tile and marble work. Architects taking bids.

High School, Smyrna, Del. Architect, private plans. Owners, Board of Education, Smyrna Special District and Delaware School Auxiliary Association, Dupont Building, Wilmington. Brick, steel, concrete, 1 and 2 stories, 150x80 feet, masonry, carpentry, steel and iron roofing, painting (plumbing, gas fitting, heating and ventilating and electric work separate bids). Lowest bidders: A. L. Hudson, Smyrna, Del. (general), $157,800. Electric, E. F. Higgins & Co., 843 Tatnall street, Wilmington, Del., $3,798. Heating, plumbing and ventilating, T. T. Weldin & Son, 916 Orange street, Wilmington, Del., $24,125.

Miscellaneous Contracts Awarded

Residence, Washington, D. C. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, H. S. Meeds, Dupont Building, Wilmington, Del. Brick, frame, 2½ stories, 55x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded to H. F. Karn, Rockville, Md.

Garage and Tenant House, Sohenin Manor, Cecil County, Md. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Thomas F. Bayard, Wilmington, Del. Brick, 1½ stories, slate roof, hot water heating, cement and pine floors, electric lighting. Contract awarded to W. D. Haddock, Wilmington, Del.

Garage, Wilmington, Del. Architect, E. C.

May, Dupont Building, Wilmington, Del. Owner, G. P. Bisell, 7 Red Oak avenue, Wilmington, Del. Brick, concrete, 2 stories, 65x60 feet, slate roof, concrete floors, hot water heat, electric light. Contract awarded to J. E. Healy & Son, 707 Tatnall street, Wilmington, Del.

ARCHITECTS AND CITY PLANNING

BY THOMAS ADAMS

It goes without saying that the architect, by virtue of his training in the principles and practice of design, his cultivaton of the artistic and imaginative qualities, and his responsibility for the buildings of the city, is in a most important sense a city planner. Indeed there is some excuse for the claim that is sometimes made that, because he is an architect, therefore he is *the* city planner. History to a large extent supports that claim. When we read of ancient city plans we usually find reference ot the architects who planned them.

In more modern times we find the contribution of the architect to the greatest examples of city planning to be an outstanding one. Washington owes as much, if not more, to the architect as to the engineer and the landscape architect. The re-planning of Chicago was under the supervision of an architect. One of the most completely executed plans was that of New Edinburgh, in Scotland, which was laid out according to a competitive plan of Craig the architect and was built up from designs of the brothers Adam, Playfair and other leading Scottish architects of the period. The greatest achievement of Edinburgh was not the street system of Craig, which R. L. Stevenson criticized somewhat harshly and not altogether justly, but the arrangement and composition of the building groups facing the streets and squares. In a later competition for designs of extensions of Craig's plans the premiated designs were those of Playfair, Crichton, Reade and Nasmyth, all Edinburg architects.

In England there is only one firm of landscape architects that practices town planning but it includes an architect as a partner. Several architects and a smaller number of engineers (including surveyors) in Britain, have gained their reputation chiefly in the field of town planning. During the period of the writer's experience few important town planning schemes have been carried to completion without the aid of an architect. When the first Garden City Company was formed at Letchworth in 1902 designs were invited from two sets of two collaborating architects—one Parker and Unwin, and the other Lethaby and Ricardo. The second Garden City of Welwyn was first planned by Crickmer, an architect who gained his early experience at Letchworth. The writer has always been associated with an architect in any plans he has prepared, and would not attempt to make a plan without architectural assistance. That association has taken the form of co-operation with an architect like Lutyens as consultant or of employing capable architectural assistants. Where, by force of circumstances, the supervision of the collaborating architect was not maintained over the execution of the plan failure has resulted.

The professors of Civic Design at Liverpool and London University are architects. Perhaps the greatest town planning conference that has been held was promoted by the Royal Institute of Architects and the proceedings of that conference is a standard work of reference on town planning.

Much more might be said to the same effect to prove the necessity, first, for the collaboration of the architects in city planning, and second, the importance of specialized training for those architects who desire to practice city planning. Similar claims could be made for the landscape architect and the engineer, in respect of those parts of the field of city planning which is properly their own. In a previous article it was shown that the field was wide enough to require the contributions of members of all three professions, with such legal aid as may be needed.

City planning will advance as an art and develop as a science all the more rapidly if it is recognized that it cannot be monopolized as a practice by individuals working alone. No doubt differences of opinion will always exist as to the relative degree of responsibility of different members in a group, but, once the general principle, that the field is one for co-operation of specialists, is accepted the relationships between the specialists will soon adjust themselves.

Acertain aloofness to city planning by American architects may be ascribed in part to two reasons—one, the lack of appreciation on their part of the need for co-operation with others, owing to a disregard of the scope and ramifications of the factors to be dealt with in the modern city plan and, two, (both a cause and effect of the first), a lack of special training in city planning.

Architectural Matters to Be Considered in City Plan

To return, then, to the question with which we started, what are the factors to be considered by the architect in the city plan?—remembering that the modern American city is a peculiar urban agglomeration growing up on a democratic foundation and without any precedent for the character of many of its problems.

It has to be studied and planned from sociological, economic and aesthetic viewpoints. Among the objects of the plan are healthy living conditions, economic use of the land, convenience for the means of transportation and distribution, order and beauty in structure and natural feature. The facts have to be known regarding topograhphic, social, climatic, hygenic, historic and economic conditions, and the relation between these facts have to be ascertained to get the foundation of knowledge necessary to plan.

The renaissance of cities cannot be accomplished by schemes for architectural treatment of their structural growth—such as the treatment of monumental civic centres, any more than by the widening of streets or the laying out of park systems. These matters have to be dealt with in proper order, but there must first be study of the underlying elements in city growth—living conditions, industry, and control of land development,—next has to be considered all the services of the city,—transportation, drainage, water supply, power, educational and recreation facilities, public open spaces and public buildings.

To begin with, whether or not the architect is co-operating with the lawyer, he needs to know something of the State laws and city charters governing safety, construction of adjacent and related buildings, building set-backs, zoning and creation of city plan commissions.

He has to investigate the effects of social and industrial factors, ascertained in surveys, on height, use and character of buildings; the influence of land tenure and methods of sub-division of blocks and lots on the arrangement, density and character of buildings erected or to be erected; the historical factors that have promoted, retarded, or changed the type of buildings; the location and reciprocal relations of industrial, business and residence buildings.

He has to study conditions regarding local types of dwellings and their improvement; the relation between urban and rural development; planning of small sites for dwellings and community centres; the relation of width of street to height and bulk of buildings and between elevation of buildings and street grades. Other matters to be dealt with from the architectural point of view are treatment of building set-backs and encroachments on sidewalks: general distribution of buildings of different character; use of alleys; private restrictions in residential areas; apartment houses, garages, theatres and other special types of building.

There are still left the big civic problems of an architectural character relating to railway termini and their approaches; market buildings; bridges, buildings in parks and athletic fields,

groups of buildings for municipal, educational, hospital and other public purposes; waterfront buildings; and generally the placing, arrangement and surroundings of public and quasi-public buildings, the approaches to these buildings and their connection with the park system and main entrances of the city.

All of these matters require to be considered by an architect in collaboration with the landscape architect and engineer. The architect needs to know something of all of them so as to enable him to cooperate effectively with the group whose combined knowledge should enable them to prepare the comprehensive plan. If, as seems certain, the planning of cities is going to be more actively promoted in the future, we have to consider what special equipment of knowledge the young architect needs to make him competent to undertake his share of the work of planning cities.—*Journal of the American Institute of Architects.*

WEATHER PROFITS IN BUILDING

BY V. L. SHERMAN

Weather Conditions Have a Big Influence on Builders' Profits. Herein are Valuable Points on How to Make Use of the Services of the United States Weather Bureau and on the Character of Service Rendered

If the builder, especially the year-round builder, would follow the daily forecasts and weather maps he would have fewer regrets after a passed mild spell, or thrown rafters after a high wind, fewer idle men during a wet season and protection against severe weather and extreme cold. If underwriters decline risks on houses with unclosed doors and windows, why shouldn't the builder protect himself, as he very well can in most cases, against both wind and rain, if given warning. Painters' work can often be arranged for minimum delay when the prospect of rain and its duration are known. Every one must take a chance, of course, but I know of four excavations for dwellings, half dug 12 days ago, that have been and are now brim full of water, and will remain full of water for another four or five days unless they lay the sewer.

Weather the world over travels toward the east, in this country at the rate of 450 to 500 miles a day. Generally speaking, weather is affected in two ways, by high pressure areas and by low pressure areas. The "lows," or cyclones (not tornadoes), are shown on the weather-map as a more or less concentric group of isobars. The isobar (i. e., equal barometer) is a line connecting points on the map at which the barometric pressure is the same. The wind flows into the "low" in a counter-clockwise direction, spiraling up from the ground and spreading in the cold upper air. Should a trough of low pressure form, the wind flows north toward it on its approach and follows south as the barometer rises. The moisture carried up from the earth's surface condenses, forming clouds, and is often carried high enough and far enough ahead of the storm to form visible cirrus clouds. These clouds, made up of ice particles, may be so thin as to present only a glare in the sun or a light ring around the moon. Rain or snow do not always accompany a low spot, but the the temperature usually rises on its approach, and during the warmer weather thunderstorms, and occasionally tornadoes, form in the southeast quadrant of the area. North of the "low" sharp thunderstorms often appear in the "break," or dip, of the barometer.

Anti-cyclones, or "highs," invert the procedure, the cold upper air spiraling down in a clockwise direction and spreading over the earth. Highs generally alternate with lows, but just as the low-spots tend to drift a little north of east, so do the highspots seem to drift south. The rise in the barometer brings fine clear weather in the east, but in the west, especially around the Great Lakes, it may be blowy and cloudy with a little rain. The writer has seen the wind box the compass four times in four days without a let up in rain, so what is the use in guessing?

Every morning at 7, central time, 150 stations throughout the United States and Canada record the readings of their instruments, the barometer, maximum and minimum temperature, precipitation; wind direction and velocity and atmospheric conditions. Six Alaskan stations record at 11 P. M. central time, and there are also stations in the Hawaiian Islands. These readings are telegraphed to the district offices where they are cleared for every district in the country. The official forcasters gather all these readings on a map, drawing isobars through points of equal barmetric pressure, and dotted line, called isotherms, through points of equal temperature. The interpretation of these weather maps of the country, which are made twice daily, from morning and evening readings, is the weather-man's task. To forecast the track of the storm he must know the topography of the country over which the storm is passing, the attendant conditions, and the probable effects of the weather upon it from all around. And each weekday the district forecasters make two predictions. The earlier one is telegraphed to the various stations from which printed forecast cards are mailed to every postoffice and subscriber. In this way anyone within telephone call of a postoffice may have his informaton with the earliest. During the colder months frost and minimum temperature forecasts accompany the weather forecasts. From the district offices weather maps are mailed every morning which contain general as well as local forecasts, shippers' advice, and highway bulletins. At the end of every month the district offices mail out complete summaries of the weather with hourly readings for each day, averages and comparisons. These sheets are quite vauable to the builder in comparing notes on work done and in planning ahead.

A remarkably small investment of a builder's time and cash will keep him in constant touch with his district office and will pay tremendous dividends.—*National Builder.*

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Wayne Iron Works..Commercial Trust Bldg., Phila.

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Richardson & Boynton Co.....1332 Arch St., Phila.

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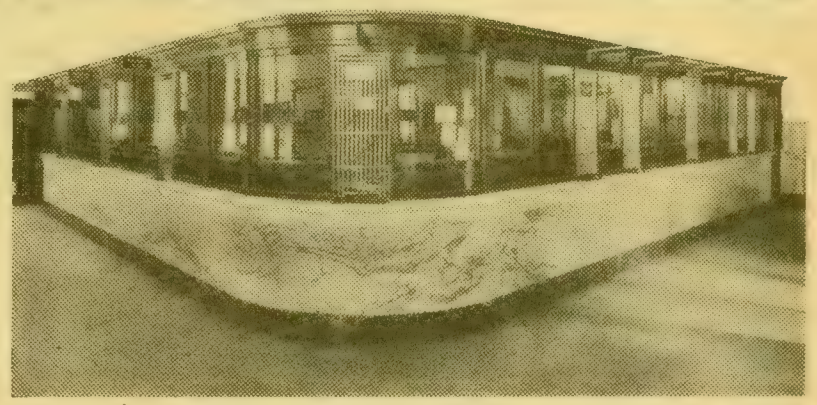
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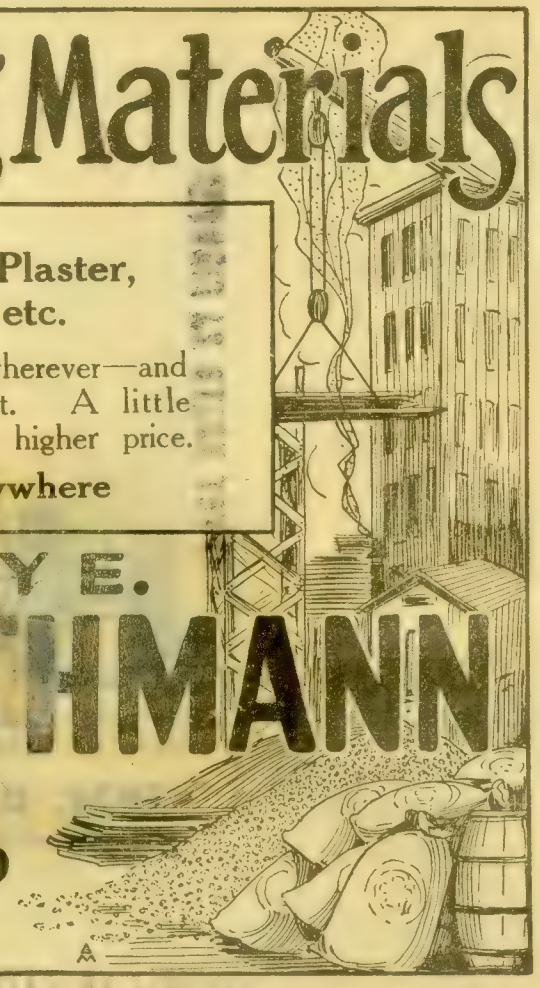


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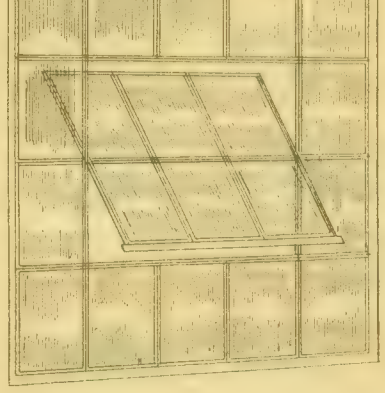


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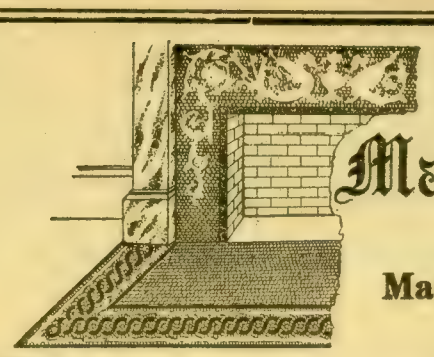
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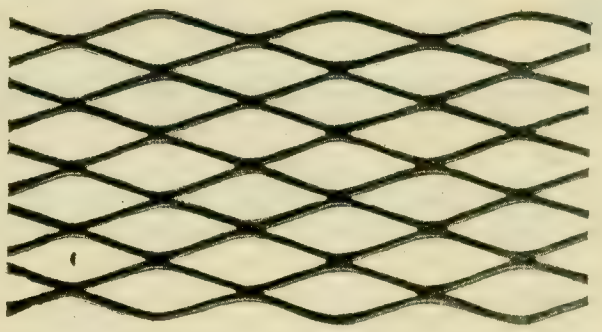
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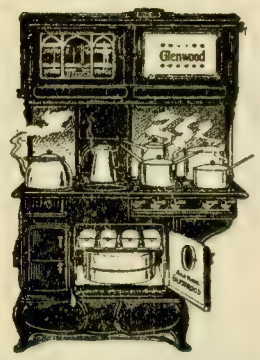
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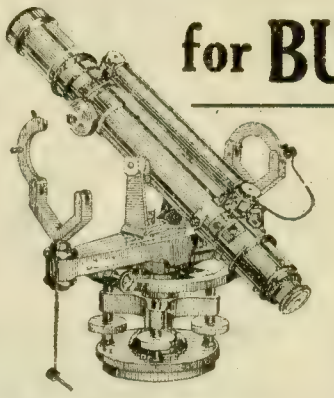
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As The Editor Sees It

ADDRESS OF WILLIS H. BOOTH, VICE-PRESIDENT, GUARANTY TRUST COMPANY, NEW YORK, BEFORE THE AMERICAN CONSTRUCTION COUNCIL, WASHINGTON, D. C., JUNE, 19, 1922.

There are so many kinds of business, which, broadly speaking, enter into the construction industry, and these in turn are affected by so many divergent interests that it is a really great task to endeavor to gather them co-operatively together. But this very fact that the component parts of construction are scattered in interest and direction emphasizes the importance of an effort to assemble them so that they may function to good purpose.

This meeting is only the natural culmination of a movement which has been agitating the business world in recent years when we have been struggling and striving, and not always sure where we are going either, to work our problems out. We have seen that co-operation in labor is necessary but that it may be badly guided and become a public peril; that co-operation in capital, while it might be wise under proper direction, becomes distinctly contrary to the public good under evil direction. The same applies to agriculture. The task of co-operation which shall bring into play those forces which make for good and shall eliminate by the combined weight of public opinion and of law, those forces which make for evil now rest heavily upon all of us. Nobody wants a country stratified in its interests, with hard lines of demarcation between labor, industry and agriculture, for the very obvious reason that one cannot exist without the other.

You who represent the various phases of the widely diverse construction industry have, therefore, had this brought home to you more definitely than have some other lines of business. It is this realization which brings us here today in an effort to set in motion a new machine having for its great purpose the co-ordination of capital, labor and management in the constructon field for the benefit of the industry and for the public good.

Differing from most easily determined industries and, at the same time, touching or comprehending practically all industry, construction has been a hard line of business to get into intense co-operation. It is so widely scattered in its character that it has been obliged by force of circumstance to gather itself into a great many groups, each representing a phase of the business. This was one of the steps in the evolution that has brought us by perfectly normal stages to this meeting this morning. It would be perfectly impossible to endeavor to accomplish what measures up to the ambition of this meeting if we had not previously organized national trade associations of one character and another, which in the main comprehend the entire industry. These trade associations when legitimately operated surely serve a most useful purpose. We must not blind ourselves to obvious conditions. The construction industry has here and there some housecleaning to do. It is very much better that it be done within its own ranks. It is equally within reasonable expectation that if this council is broadly supported it can crystallize business practices and policies within the trades that will prevent unfortunate criticism in the future.

I appreciate full well that it is not going to be an easy thing for any council of men, no matter how intelligent they may be or how fair their method of selection, to gather together at any time and be able to guide all of the factors in such a great industry as this. There are so many branches of the business. In most cases manufacturers do not produce a finished product but only a semi-finished product, so far as its ultimate use is concerned. Construction materials, broadly speaking,, are but raw materials, and construction equipment but tools. And then the contractor comes in and, whether it be a building or a bridge, a highway or an ocean liner, by assembling the raw materials and equipment and labor and executive direction, he produces the ultimate structure. It is only necessary to recite these component parts of raw material, labor, equipment and executive direction to emphasize again their

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mutual dependency. The executive direction implies the business management of the contractor associated with the highly technical skill of the architect and engineers in the various lines of engineering. As the matter now stands these component elements are thinking of construction largely in the light of its particular interest to them. This is natural. But in forming this council we appeal to a more enlightened selfishness and feel confident of support on the basis of a more intelligent service to the public. It is this intelligent co-operative service which we hope to demonstrate will be of great practical value to every individual whose contact reaches to the construction field. This council is designed to be primarily a practical thing. The construction industry is not devoid of vision. No one who builds anything can do so without vision. We know that if this movement can be worked out to its ultimate that the entire standards of construction operation will be bettered and relationship with the public be even greater increased in confidence and respect.

But just as we had to reach to the council over the road of trade associations, in the same way this council must reach its ultimate ambition over the road of quietly and gradually developing cooperation between labor, material, equipment and management. In setting up the organization we are only doing a roughing-in job. We are perfectly familiar with the fact that as matters stand now the manufacture of any of the various materials entering into a job has little or no direct responsibility to the owner. The professional advisers have the aloofness from both the manufacturing and contracting branches which naturally comes from the contrast between professional and commercial standards. The contractor is not a free agent of the owner, but works under the direction of the architect and the engineer. In some cases he is forced to undertake a contract which, while appealing to professional direction, is not mutually advantageous as between the contractor and the owner.

Up to this time there has been no clearing house for these differences of viewpoint. No place where the representatives of each line of effort court sit down and talk the matter over, fully confident that he would be not only accorded a fair hearing, but that he would be properly represented in any decisions that might be reached. Of course, no judgments can be reached except on matters of policy. It is these great matters of policy that make the framework of all our industrial relations.

When we think about policies and want to make up our judgments we must ascertain the facts. And so we find that before we can make a judgment covering a policy in the construction business, or in any other business, we must have before us the statistical information which, coupled with our practical experience, gives us the groundwork upon which conclusions may be based. This council then naturally becomes a clearing house for the information contained in the industry as a whole. Theoretically this is simple. Practically it is not going to be so easy. But I have every confidence that step by step it will prove its vaule, will develop the support and cooperation of the component parts of the industry, and ultimately will be so equipped as to have first-hand information on all the elements of vital importance in every phase of the construction business. If this council endeavored to do no more than would be contemplated by this effort, it would, it appears to me, offer every reason for its existence.

There is nothing more dangerous than half truths. When this Council endeavors to compile the statistics of an industry it must be very sure it has gathered every possible bit of information available, and then must give the same out frankly and completely, whether it affects the industry advantageously or not. This is the only way that confidence will be developed, and this council will rise or fall in its effort entirely upon the confidence which is engendered and the value which the public, no less than the component parts of the industry, places upon its observations and recommendations. This statistical information,,, if properly compiled and gathered as it must be from the trade associations and the departments of the government directly assocated with these matters, can be of estimable value to those manufacturers, especially the smaller ones, whose business it is to provide the supplies for the construction industry. I am fully aware that this situation has been well cared for, particularly in specific lines, but I am advancing the hope that the council will be able to develop itself into a clearing house of statistical information for the whole industry that will be of inestimable value to everyone connected with it.

This Council, too, representing so completely all of the various phases of industry, should be powerfully instrumental in having the construction business appreciate its own magnitude and importance and its effect upon the prosperity and well being of the nation. This would have the natural result of inspiring at least a portion of those engaged in the business to a kind of dual business patriotism, a patriotism on the one hand which would make them take pride in and be loyal to the business which makes

(Continued on page 627)

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Office Building, Northwest Corner Fifteenth and Spruce streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Isador Stern, Lincoln Building, Philadelphia. Brick, steel and concrete. Plans in progress.

Lodge Building, Sixty-first street above Race street, Philadelphia. Architect, Richard C. Loos, 2218 Chestnut street, Philadelphia. Owners, Keneshaw Tribe of I. O. R. M., on premises. Brick and steel, 3 stories, slag roof, electric lighting, hot water heating, tile work. Plans in progress.

Institute, Nineteenth, Race to Cherry streets, Philadelphia. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Franklin Institute, care of Major R. B. Owens, 15 South Seventh street, Philadelphia. Stone, brick, steel and concrete. Plans completed. Will take bids in ten days.

Garage, 5611-13 Vine street, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, T. Bardaro, Fifty-seventh and Vine streets, Philadelphia. Brick, 1 and 2 stories, 90x32 feet, wing 18x24 feet, slag roof, cement floor, steam heat, electric lighting. Plans completed. Owner will take sub-bids in one week.

Residences (21), Fourth street above Grange street, Philadelphia. Architect, E. Allen Wilson ,1208 Chestnut street, Philadelphia. Owner, John M. Snyder, care of architect. Brick, 2 stories, 16x40 feet, slag and tin roof, hardwood floors, hot water heat, electric light. Plans in progress. Owner will take sub-bids.

Pool Room and Apartments (alts.), Amber and Huntingdon streets. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, John W. Fatz, on premises. General alterations, electric work. Architect taking sub-bids.

Loft Building (alts. and add.), 112 to 122 North Twelfth street and 1210-1212 Cherry street, Philadelphia. Architects, Ballinger, Inc., Twelfth and Chestnut streets, Philadelphia. Owner, Walter E. Hering, on premises. Brick, cut stone, concrete and steel, 9 stories, 58x183 feet and 74x84 feet, slag and tile roof, wood block, maple, composition and cement floors, hollow tile, safety treads, roof ventilators, waterproofing, terra cotta, iron work and stairs, floor hardener, bond, fire and kalamein doors, rolled steel sash and skylights, marble work, metal lath, demolition, cork insulation. Architects taking bids due October 4th.

Apartment Building (alts. and add.), Allison street and Baltimore avenue, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, Isador Levy, on premises. Brick and cut stone, 2 stories, 27x38 feet, demolition, slag roof, maple floors, steam heat, electric light, tile work, rolled steel skylights, bond, iron work. Architect taking bids due September 29th.

Residence (alts.) to Store and Apartments, Northwest Corner Twenty-third and Spruce streets, Philadelphia. Architect, R. R. Neely, 2136 Pine street, Philadelphia. Owner, W. B. Hibbs, care of architect. General alterations, 2 stories, electric lighting, bulks, plate glass, hardwood floors. Plans in progress.

Factory (alts.), Marvine street and Montgomery avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers, Third and Spruce streets, Philadelphia. Alterations to locker, toilet and recreation rooms, slag roof, pine floors, carpentry, mill work, painting, glazing, hollow metal skylights (heating and lighting reserved). Architect taking bids due as soon as possible.

Funfield Centre, Twenty-second and Sedgley avenue, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of Recreation, Department of Public Welfare, 595 City Hall, Philadelphia. Brick, cut stone, granite, steel and concrete, 2 and 1 stories, slag roof, 275x48 feet, without auditorium (Item B) cement, tile and pine floors, metal lath, rolled steel doors, hollow metal doors, ornamental iron work, steel work (heating separate). Owners taking bids due September 28th.

Store and Apartments, Southwest Corner Second and Federal streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owners, Kaplan & Milgram, care of architect. Brick, 2 stories, 120x18 feet, slag roof, pine floors, metal lath, demolition, steam heat, electric light, tile and marble work, ribbed florentine glass, metal ceilings, iron work. Architect taking bids due as soon as possible.

Store and Residence (alts. and add.), Fifty-fifth and Spruce streets. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Mrs. Bessie Wolf, on premises. Brick, 2 stories, 19x51 feet, slag roof, pine floors, metal lath, plate glass, metal bulks, blue stone, tile work, electric light, hot water heating. Owner taking bids due September 28th.

Residences (24), Sixty-third and Kingsessing avenue, Philadelphia, $112,500. Architect, private plans. Owner, Thomas F. Farris, 5213 Chestnut street, Philadelphia. Brick, 2 stories, 15½x32 feet, 12x8 feet, 18x32 feet, and 32x40 feet, slag roof, hot water heat, electric light. Owner will build

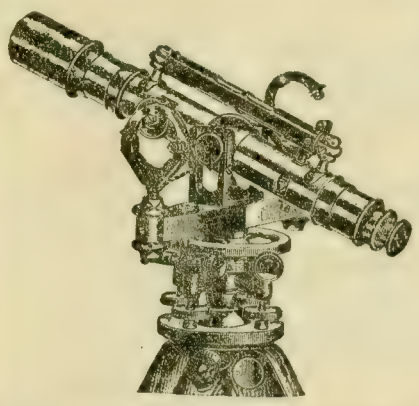
Residences and Garages, South side of Pine street, West of Forty-ninth, $73,000. Architect, private plans. Owner, Samuel Schlosberg, 5446 Locust street, Philadelphia. Brick, 2 stories, 16x34 feet, 12x12 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (3), 3366-68-70 Salmon street, Philadelphia, $10,000. Architect, private plans. Owner, Stanley Ozga, 2507 East Westmoreland street, Philadelphia. Brick, 2 stories, 16x32 feet, 12x12 feet, hot water heating, electric lighting, slag roof. Owner will build.

Residences (40), Wyoming, Lawrence and Mentor streets, Philadelphia, $208,000. Architect, private plans. Owner, Charles G. Erny, 4665 Paul street, Philadelphia. Brick, 2 stories, 13x10 feet, 16x28 feet, and 16x46 feet, hot water heating, electric lighting. Owner will build.

Residence, South side Rex avenue, East of Ridge avenue, Philadelphia, $6,500. Architect, private plans. Owner, A. Wilkinson, Harmon road, Roxborough, Philadelphia. Frame, 2 stories, 28x39 feet, shingle roof, hot water heat, electric lighting. Owner will build.

Residences (4), West side Glenloch, North of Magee street, $4,000 each. Architect, private plans. Owner, H. Roy Whittaker, Torresdale avenue and Tyson street, Philadelphia.



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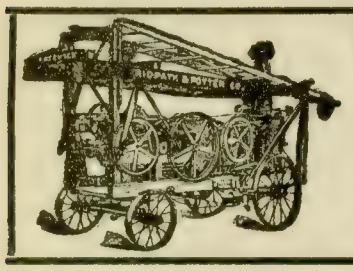
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Residence, West side Walker street, South of Deveraux street, $3,400. Architect, private plans. Owner, Thomas McKinney, 6133 Glenloch street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, electric lighting, pine floors. Owner will build.

Residence (alts. and add.), 1904 North Twelfth street, Philadelphia, $2,500. Architect, private plans. Owner, Louis Cohen, 417 Christian street, Philadelphia. Brick, 1 story, 12x8 feet, general alterations, slag roof, electric work. Owner will build.

Residences (3 double), Manayunk, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Max Meitner, 365 Green lane, Philadelphia. Brick, 2½ stories, 16x35 feet, composition roof, hardwood floors, hot water heat, electric light, tile work. Owner will take bids.

Residence, North side Burholme, East of Oxford avenue, $5,000. Architect, private plans. Owner, A. M. Lane Ward, 8049 Pine road, Philadelphia. Frame and stucco, 2 stories, 27½x40 feet, shingle roof, oak and pine floors, electric lighting. Owner will build.

Garage, West side Beechwood street, North of Medary avenue, $4,400. Architect, private plans. Owner, John P. Schmid, 6314 Limekiln pike, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric lighting. Owner will build.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, City Hall, Philadelphia. Owners taking bids due September 28th at noon at 216 City Hall.

Grading—Beechwood street, Sixty-sixth avenue to Stenton avenue; Cayuga street and 10 other streets; Clearfield street, Hancock to Howard street; Cresheim Valley Drive, Willow Grove avenue to Springfield avenue; Rising Sun avenue, Wyoming avenue to Courtland street; Vine street, Dagget street to Sixty-sixth street; Walnut lane, Seventy-hird avenue to Cheltenham avenue.

Asphalt Paving and Vitrified Brick Gutters—Allengrove street, Castor avenue to Roosevelt Boulevard; Beechwood street, Snyder avenue to Jackson street; Broad street, Haines street to Seventieth avenue; Front street, Erie avenue to Hunting Park avenue; Hope street, Indiana avenue to Clearfield street; Lebanon avenue, Sixty-sixth to Sixty-eighth streets; Nedro avenue, York road to Ogontz avenue; Stocker street, Seventeenth to Eighteenth street; Sixty-fifth street, Haverford avenue to Media street.

Paving with Hillside Brick—Lebanon avenue, Bryn Mawr avenue to Fifty-third street.

Residence (add.), 3632 Stanton street, Philadelphia, $2,000. Architect, private plans. Owner, A. Ciccio, on premises. Brick, third story add., 16x17 feet, slag roof, yellow pine floors. Owner will build.

Moving Picture Theatre, Torresdale avenue, Wissinoming, Philadelphia, $70,000. Architect, E. A. Stopper, 1507 Arch street, Philadelphia. Owners, Northeast Amusement Co., care of architect. Brick and steel, 1 story and balcony, 155x53 feet, slag roof, cement floors, metal lath, roof ventilators, terra cotta, iron work, bond, fire doors, rolled steel sash and skylights, steam heating. Owners will build.

Sunday School (alts. and add.), Mascher and Colonna streets, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Norris Square Methodist Episcopal Church, on premises, care of Building Committee. Brick and steel, 2 stories, 64x92 feet, slag roof, pine floors, dampproofing, iron work, electric lighting, metal lath, tile work, rolled steel skylights. Owners will build.

Factory (add.), Redfield street below Baltimore avenue, Philadelphia. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, West Philadelphia Cut Glass Co., on premises. Brick, 1 story, 60x90 feet, slag roof, cement floors, steel work, steam heat, electric lighting, rolled steel sash. Architect taking new bids due September 28th.

Stores and Residences (alts. and add.), 3131-3133-3149-3151 North Twenty-second street, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Henry J. Lachenmayer, care of architect. Brick, 2-story add., 16x18 feet, slag roof, cement and pine floors, stone work, hot water heat, electric lighting, tile work, verdi antique or artificial marble, mill work, plate glass, iron stairs, plumbing. Architect taking sub-bids due as soon as possible.

Branch Sewers, Philadelphia. Owners, Bureau of Surveys, Department of Public Works, Frank H. Caven, Directors, 216 City Hall, Philadelphia. Owners taking bids due October 3rd at noon. Bigler street, Moyamensing avenue to Broad street; Colona street, Moyer to Thompson street; Colorado street, Eighteenth street to Moyamensing avenue; Dickens avenue, Sixty-fifth to Gross street; Holbrook avenue, Elmwood avenue to Buist avenue; Mentor street, C to D streets; Moyamensing avenue, Eighteenth street to Fifteenth street; Penn street, Henry to Vaux street; Pollock street, Moyamensing avenue to Broad street; Sixteenth street, Moyamensig avenue to P. R. R.; Twenty-first street, from Thorp's lane to Champlost avenue.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

People's Theatre (alts.), Kensington avenue and Cumberland street. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Co. of America, 1218 Market street, Philadelphia. Carpentry, mill work, concrete floors, hollow tile, metal lath, plastering ,painting, heating repairs, plumbing, electric work, hollow metal sash, fire doors, fire esctpes, bond, structural steel. Contract awarded to Pierce-Henon Co., Juniper and Pine streets.

Residences (alts.), 1921-23 Panama street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Hon. George Wharton Pepper, Land Title Building, Philadelphia. Brick, 3 stories, 32x40 feet, slag roof, electric lighting (heating reserved), tile work, dampproofing. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Storage Building, Fifty-second street below Baltimore avenue, Philadelphia. Architect, private plans. Owners, Miller North Broad Storage Co., 2715 North Broad street. Brick, concrete and steel, 7 stories, basement and mezzanine, 104x71 feet, slag roof, pine and cement floors, elevators, cold water painting, iron work, fire doors, hollow metal skylights, rolled steel sash, electric lighting. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

Apartments (alts. and add.), 1902 Erie avenue, Philadelphia. Architect, E. A. Wightman, Heed Building, Philadelphia. Owner, Mrs. Schiff, on premises. General alterations and addition, hot water heating, electric lighting, tile work, carpentry, mill work. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Sewage Disposal Plant, Fortieth Ward, Island road, Philadelphia. Architect, private plans. Owners, Department of Public Works, City Hall, Philadelphia. Reinforced concrete and face brick and steel, 116½x594 feet, 40 feet below street level, 80 feet above level, steel rails, electric equipment, hollow metal sash and doors, steel platforms. Contracts awarded to: General, Jackson & Co., 119 South Fourth street, Philadelphia, $153,900. Mechanical equipment, Sanitary Corp. of America, Drexel Building, $48,000. Electric, M. L. Baird & Co., Philadelphia, $9,600. Plumbing, Philadelphia Steam Heating Co., Juniper and Cherry streets, $3,082. Heating, Austin, Gorham & McIlvaine, 1816 Ludlow street, $2,484.

Wading Pool and Shelter, Sunshine Centre, Sixth and Christian streets. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, C. H. Warburton, 584 City Hall, Philadelphia. One story, 35x20 feet, shingle roof, cement floors, mill work, painting, sodding, bond, iron fences. Contract awarded to Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, Philadelphia, $5,350.

Building (int. alts.), 1508 Chestnut street, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Corn Exchange National Bank, Second and Chestnut streets. Painting, glazing, metal lath, plastering, bunk fixtures. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Residence, East side Bustleton, North of Cemetery road, $8,645. Architect, private plans. Owner, Richmond C. Reinhold, 135 East Boulevard, Philadelphia. Frame, 2 stories, 26x44 feet, shingle roof, hot water heat, electric light, oak and pine floors, tile work. Contract awarded to H. T. Curtis, Somerton, Pa.

Stores and Residences (2), 1314-16 East Washington lane, $7,500. Architect, private plans. Owner, James Rayner, 1318 Washington lane, Philadelphia. Brick, 2 stories, 16x46 feet, 10x7½ feet, slag roof, electric work. Contract awarded to H. B. Kuster, 3029 Cedar street, Philadelphia.

Factory, 2604-06 North Fairhill street, Philadelphia, $7,000. Architect, private plans. Owner, E. Aschenbach, Eighth and Spring Garden streets, Philadelphia. Brick, 1 story, 23x65 feet, slag roof, electric work, pine

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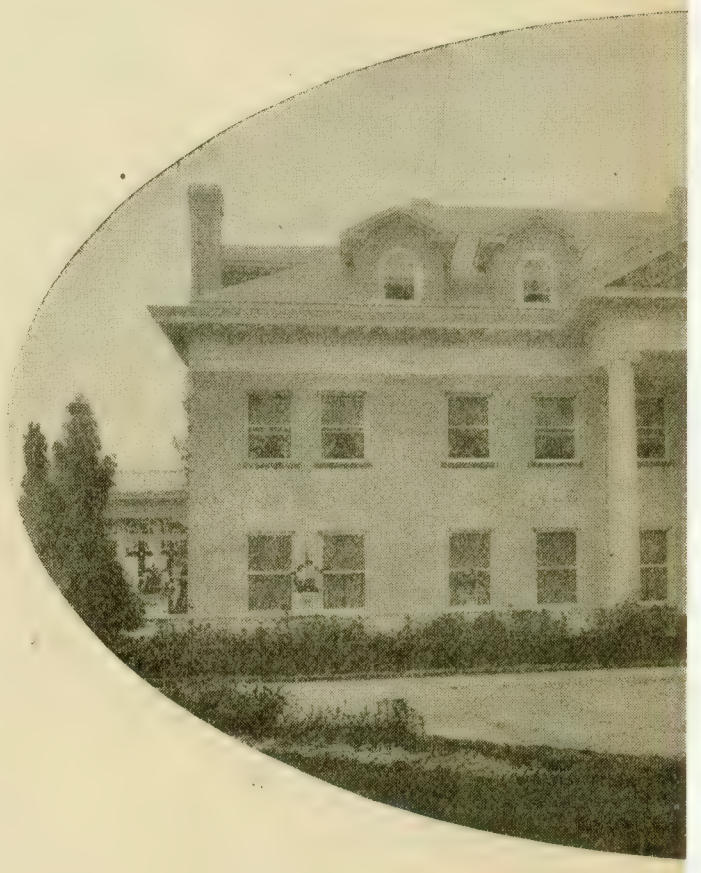
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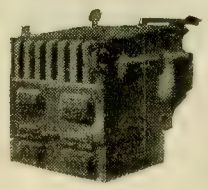
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WAREHOUSE STOCK IN PHILADELPHIA

floors. Contract awarded to Harold E. Miller, 2528 Coral street, Philadelphia.

Residence (alts. and add.), 446 West Chestnut avenue, Chestnut Hill. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Walter D. Larzelere, on premises. Brick, cut stone, hollow tile and stucco, 2½ stories, 32x21 feet, shingle roof, metal lath, iron work, tile work (heating, lighting and finished floors reserved). Contract awarded to F. B. Davis & Son, Inc., 240 North Sixteenth street.

Baggage Room, Market Street Ferry, Philadelphia. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Galvanized iron, 1 story, 19x125 feet, slag roof, pine floors. Contract awarded to A. L. Carhart, Penfield Building, Philadelphia.

Residences (2), South side Hellerman, West of Oakley, $5,500 each. Architect, private plans. Owner, Mrs. C. S. MacMurtrie, 6305 Woodlawn avenue, Philadelphia. Frame, 2 stories, 16 feet 4 inches x 40 feet 9 inches, shingle roof, electric lighting. Contract awarded to H. S. & S. E. Slack, 6311 Woodlawn avenue.

Boiler Room (alts.), Northwest Corner Tenth and Diamond streets, $5,000. Architect, private plans. Owners, Fretz Realty Co., on premises. General interior alterations. Contract awarded to William Jackson, Bourse Building, Philadelphia.

Residence, North side Verree road, East of Oakmont street, $4,800. Architect, private plans. Owner, A. Barnes, Rising Sun avenue and Wyoming street, Philadelphia. Frame, 1 story, 24x32 feet, shingle roof, electric light. Contract awarded to Beam Const. Co., Hobson and Elmwood avenue.

Residence, East side Bingham street, South of St. Vincent, $4,300. Architect, private plans. Owner, W. J. Henderson, 923 East Schiller street, Philadelphia. Frame, 1 story, 27x34 feet, shingle roof, electric lighting. Contract awarded to Fred Scheible, 3467 Jasper street, Philadelphia.

Residence, 6239 Spruce street, Philadelphia, $6,000. Owner, I. Schwartzman, Southwest Corner Sixty-third and Vine streets, Philadelphia. Brick, 2 stories, 15x42 feet, slag roof, hot water heat, electric light, oak and pine floors. Contract awarded to H. M. Shandles, 1211 Chestnut street, Philadelphia.

Apartment, 109 South Fortieth street, Philadelphia, $20,000. Architect, private plans. Owner, W. T. Harris, Jr., 3944 Chestnut street, Philadelphia. Brick, 3 stories, 22½x20 feet, 25½x4 feet, slag roof, electric lighting, oak and pine floors. Contract awarded to Ernest Purring & Son, Narberth, Pa.

Carriage House (alts.), 131 Rex street, Philadelphia, $4,000. Architect, private plans. Owner, Hamilton Disston, 131 Rex street, Philadelphia. General alterations. Contract awarded to Hugh Williamson, 6641 Hegerman street.

Residence, 1025 West Cliveden street, Philadelphia, $18,500. Engineer, Edward G. McGannon, 1028 West Upsal street, Philadelphia. Owner, John A. Seeds, 1028 West Upsal street, Philadelphia. Stone, 3 stories, 51x32 feet, 10x18 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Contract awarded to Ralph Borthwick, 8018 Germantown avenue.

Residence, East side Lawndale street, South of Cottman, $5,000. Architect, private plans. Owner, E. R. Pelerdy, 4443 Palethorpe street, Philadelphia. Frame, 2 stories, 30x58 feet, shingle roof, oak and pine floors. Contract awarded to A. W. McKinley, 724 West Annsbury street.

Residence, East side Veree road, North of Afton street, $6,200. Architect, private plans. Owner, George C. Lutter, 7243 Tabor road, Philadelphia. Frame, 2 stories, 24x28 feet, shingle roof, oak and pine floors. Contract awarded to Evert & Goodnow, 7990 Oxford avenue.

Residence, South side Roosevelt Boulevard, West of Eleanor, $5,000. Architect, private plans. Owner, Jacob H. Suker, 5540 North Fifth street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, electric light, tile work. Contract awarded to Mathew A. Roth, 5540 North Fifth street, Philadelphia.

Tenement (alts.), Southwest Corner Forty-fourth and Market streets, $3,000. Architect, private plans. Owner, Dr. G. C. Guest, on premises. General interior alterations. Contract awarded to H. P. Collins, 230 North Fifty-third street, Philadelphia.

Residence and Store (alts.), Southeast Corner Thirty-first and Cumberland streets, $2,000. Architect, private plans. Owner, L. Segal, 445 North Fourth street, Philadelphia. General alterations. Contract awarded to George Hawk, 1628 North Twelfth street, Philadelphia.

Residence (1) and Residences and Stores (2), Oregon avenue and Sheridan street, Philadelphia, $12,000. Owner, Mrs. Pauline Weisberg, 1544 East Passyunk avenue, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof, electric lighting. Contract awarded to H. Harad, 1621 Point Breeze avenue, Philadelphia.

Residences (2), North side Sedgwick street, East of Lincoln Drive, $18,000 each. Architect, A. T. Smith, Otis Building, Philadelphia. Owner, G. H. English, 5709 McCallum street, Philadelphia. Stone, 3 stories, 62x22 feet, 22x18 feet, slate roof, hot water heat, electric light, tile work. Contract awarded to Jacob K. Hoff, 3531 North Seventh street, Philadelphia.

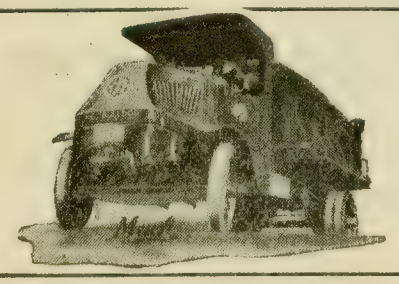
Fire Repairs, 213 Church street, Philadelphia, $6,800. Architect, private plans. Owners, Pennsylvania Company, 517 Chestnut street, Philadelphia. Carpentry, mill work, plastering, painting, glazing. Contract awarded to John Duncan, 920 Walnut street, Philadelphia.

Residences (2) (add. and alts.), 5216-18 Walnut street, $10,000. Owner, H. M. Shapiro, 5411 Market street, Philadelphia. Brick, 2 stories, 12x18 feet and 8x15 feet, general alterations. Contract awarded to Sarson & Kausan, 132 North Fifty-first street, Philadelphia.

Residence, South side Van Kirk street, East of Reach street, $4,500. Architect, private plans. Owner, Joseph B. Skitt, 4937 Pulaski avenue, Philadelphia. Brick, 2 stories, 20x30 feet, slag roof, electric work, pine floors, hot water heat. Contract awarded to Harold E. Miller, 2528 Coral street.

Residence, Wingate street, East of Cottage street, Philadelphia, $4,500. Architect, private plans. Owner, Richard H. Inskip, 5314 Darrah street, Philadelphia. Brick, 1½ stories, 26½x46½ feet, slag roof, hot water heating, electric lighting, oak and pine floors. Contract awarded to George H. Thirsk, 4305 Horrocks street.

Elevator Shaft (alts.), 226 Chestnut street, Philadelphia, $3,000. Owner, H. Rakestraw, on premises. General alterations. Contract awarded to Smith-Hardican Co., 1606 Cherry street.



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Residence (add.), 2033 Frankford avenue, Philadelphia, $2,000. Architect, private plans. Owner, Samuel Weinberg, on premises. Brick, 2 stories, 13x28 feet, slag roof, pine floors, electric work. Contract awarded to Thomas W. Buchanan, 2403 North Mascher street.

Residence and Store (add.), 401 West Penn street, Philadelphia, $2,000. Architect, private plans. Owner, Mary J. Craigmile, on premises. Brick, second story add., 16x7 feet, third story add., 16x19 feet, slag roof, pine floors. Contract awarded to F. K. Stahl, 2711 North Broad street, Philadelphia.

Residence and Store (add.), 1296 City Line, Philadelphia, $2,000. Architect, private plans. Owner, Vincent D. Alonzo, on premises. Brick, 1 story, irregular size, slag roof, pine floors. Contract awarded to Charles P. Trois, 2154 East Chelten avenue.

Residence and Store (alts.), 4332 North Seventeenth street, $2,000. Architect, private plans. Owner, R. Mathews, 1720 St. Paul street, Philadelphia. General fire repairs. Contract awarded to A. E. Kenselman, 4327 North Seventeenth street.

Residence and Store (alts.), 1401 South Twenty-third street, Philadelphia, $2,000. Architect, private plans. Owner, N. Macker, on premises. General alterations. Contract awarded to A. Shestack, 5829 Walnut street, Philadelphia.

Residences (2), East side Beechwood street, South of Longshore, $3,550 each. Architect, private plans. Owners, Rush Brothers, Longshore and Hegerman streets, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, electric work. Contract awarded to Daniel J. Gercke, 6938 Tulip street, Philadelphia.

Garage, Northeast Corner Greene street and Queen Lane, Philadelphia, $29,000. Owners, Osmon & Keen, 1619 Sansom street, Philadelphia. Brick, 1 story, 89½x125½ feet and 25x29 feet, slag roof, cement floors, electric work, steam heat, steel sash, rolled steel skylights. Contract awarded to Frank G. Stewart, 1519 Sansom street.

Residence, East side Bingham, South of Benner street, $5,000. Architect, private plans. Owner, Louis Boyer, 903 North Fifth street, Philadelphia. Frame, 2 stories, 29x40 feet, shingle roof, hot water heat. Contract awarded to Jacob Gaertner, 7225 Oxford avenue.

Residence, South side Afton, East of Verree road, $4,800. Architect, private plans. Owner, Charles Braun, 1020 Hellerman street,

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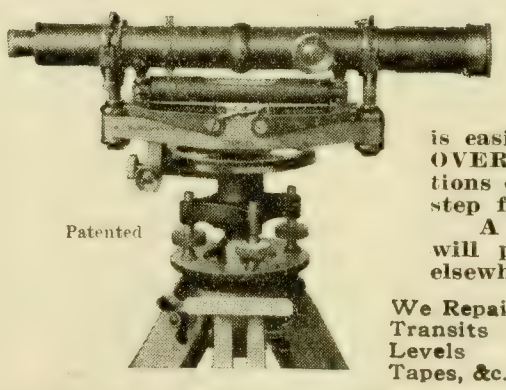
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Philadelphia. Frame, 2 stories, 24x30 feet, shingle roof, hot water heating. Contract awarded to Joseph Maulbecker, 1856 East Westmoreland street.

Garage, 539 Carpenter lane, Philadelphia, $4,500. Architect, private plans. Owner, Levi Cartmett, 655 West Johnson street, Philadelphia. Stone, 1 story, 20x108 feet, slate roof, cement floors. Contract awarded to B. C. Lauer, Chalfont, Pa.

Engine Room, 5411 North Water street, Philadelphia, $4,000. Architect, private plans. Owner, C. W. Jennyt, on premises. Brick, 1 story, 16x34 feet, 47x15 feet, slag roof, cement floors. Contract awarded to W. L. Bushnell, 2146 East Norris street.

Shop and Garage, 6330 Paschall avenue, Philadelphia, $2,800. Architect, private plans. Owner, Edward Braun, 6332 Paschall avenue, Philadelphia. Brick, 1 story, 16x80 feet, slag roof, cement floors. Contract awarded to James Cunningham, 2516 Christian street.

Store and Residence (alts.), 1003 North Marshall street, $2,600. Architect, private plans. Owner, H. Jacobson, 618 Poplar street, Philadelphia. General interior alterations. Contract awarded to M. Rosenheck, 709 Parrish street, Philadelphia.

Garage (add.), East side Front street, South of Mentor, $3,000. Owner, Edward Hartman, on premises. Brick, 1 story, 22½x10 feet. Contract awarded to G. V. Simon, 4908 North Fourth street, Philadelphia.

Residence (alts.), 246 West Evergreen avenue, Chestnut Hill. Architect, John Graham, Jr., 10 South Eighteenth street, Philadelphia. Owner, Henry Bell, Jr., on premises. Plastering, carpentry, mill work, stone work, painting, glazing, slate roof, tile work (heating, electric work and plumbing reserved). Contract awarded to E. Allen Reeves, Inc., Abington, Pa.

Radial Chimney, North side Wyoming avenue, opposite G street, $5,500. Architect, private plans. Owners, Walter E. Knipe & Son, on premises. Brick, 150 feet high. Contract awarded to M. W. Kellogg Co., 90 West street, New York.

Residence, 3120 Van Kirk street, Philadelphia, $4,500. Architect, private plans. Owner, David Grolman, 516 East Hilton street, Philadelphia. Brick, 2 stories, 16x32½ feet, hot water heat, slag roof. Contract awarded to L. Mallord and J. Moore, 3307 E street, Philadelphia.

High School, Smyrna, Delaware. Architect, private plans. Owners, Board of Education, Smyrna Special Board District and Delaware School Auxiliary Association, Dupont Building, Wilmington, Del. Brick, steel, concrete, 1 and 2 stories, 150x80 feet, masonry, carpentry, steel and iron, roofing, painting (plumbing, gas fitting, heating, ventilating and electric work separate bids). Contract awarded to A. L. Hudson, Smyrna, Del., $139,375.

Pennsylvania Construction News

Store Building and Residence, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, John B. Young, 105 North Main street, Spring City, Pa. Brick, stone, 2 stories, 28x60 feet, tin roof, composition floors (heating, plumbing and lighting reserved), mill work, bond, waterproofing. Plans in progress.

Knitting Mill, Pottstown, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Ronald A. Reiff, 62 North Hanover street, Pottstown, Pa. Brick and stone, 2 stories, 190x60 feet, 125x60 feet, demolition, composition roof, maple and concrete floors, steam heat, electric light, steel sash, bond, waterproofing, floor hardener (machinery reserved). Plans in progress.

School, Millmont, Reading, Pa. Architect, F. H. Muhlenberg, 24 North Sixth street, Reading, Pa. Owners, Reading School Board, O. R. Heim, secretary, Reading, Pa. Fireproof, 8 rooms. Preliminary plans in progress.

Store and Apartment, Seventh and Cherry streets, Reading, Pa. Architect, M. B. Dechant, Dechant Building, Reading, Pa. Owner, J. B. Waidelich, American Drug Store, Allentown, Pa. Brick and hollow tile, 4 stories, 97x32 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

High School, Annville, Pa. Architect, E. Z. Schell, 136 Robeson street, Reading, Pa. Owners, Annville School Board, Mr. Wagner, secretary, Annville. Fireproof, 2 stories, 160x95 feet. Plans in progress.

Residence (alts. and add.), Bryn Mawr, Pa., $15,000. Architect, John Emlen Bullock, 34 South Seventeenth street, Philadelphia. Owner, William M. Griscom, Bryn Mawr, Pa. Stone work, plastering, hot water heat, plastering, oak floors, tile and marble work, iron work. Architect ready for bids.

Stores, Apartments and Garage, Oakmont, Pa. Architect, Henry Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Deaveshall, Inc., Oakmont, Pa. Stone, brick and steel, 3 stories, 181x80 feet, slag built-up roof, pine floors, hollow tile or block partitions, cement work, vacuum heating, electric lighting, tile work, plate glass, metal bars. Architect taking sub-bids.

Bungalow, Penn Side, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Edward Gotshall, 123 Spring street, Reading, Pa. Brick, concrete, 1½ stories, 30x60 feet, slate roof, pine floors, hot water heat, electric light, tile work. Owner sub-letting.

Sharon High School, Sharon, Mercer County, Pa. Architects, Taylor & Hanna, Shtron, Pa. Owners, Board of Education, William H. Whitehead, secretary, Sharon, Pa. Brick, cut stone and steel, 3 stories, 195x171 feet, metal lumber and concrete roof, concrete and maple floors, metal lath, elevators, iron work, floor hardener, bond, hollow metal skylights (heating, plumbing and electric work separate bids). Owners taking bids due October 5th.

Building, 726-28 Penn street, Reading, Pa. Architect, Fred A. Muhlenberg, 30 Liberty Bank Building, Reading. Owners, Harold Furniture Co., 812 Penn street, Philadelphia. Brick, cut stone and steel, 5 stories and basement, 270x40 feet, composition and tile roof, cement floors, demolition, roof ventilators, waterproofing, terra cotta, iron work and stairs, bond, fire doors, rolled steel sash, terrazzo work, metal lath (heating, electric work, plumbing and electric elevators separate bids). Architect taking bids due October 2nd.

Residence, Cumru Township, Berks County, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, Samuel Fretz, care of architects. Hollow tile and stucco, 2 stories, 25x40 feet, asphalt shingle roof, hardwood floors, electric lighting. Architect taking bids due September 28th.

School and Auditorium, Newmanstown, Pa. Architect, H. Maurer, 226 Fifth street, Reading, Pa. Owners, Mill Creek School District, Regis Chauvenet, secretary, Newmanstown, Pa. Brick, 2 stories, 70x100 feet, slag roof, maple floors (electric work, heating and plumbing reserved), metal lath, rolled steel sash. Owners taking bids due October 12th.

Residence (alts. and add.), Ogontz, Pa. Architects, Willing, Sims & Talbut, 129 South Eighteenth street, Philadelphia. Owner, Dr. William Pepper, Ogontz, Pa. Brick, cut stone, mill work, carpentry, shingle roof, pine floors, painting, glazing, hardware, tile and marble work, iron work (heating, lighting and plumbing separate bids). Architect taking bids due October 4th.

Junior High School, Altoona, Pa. Architect, Julien Millard, Altoona, Pa. Owners, Altoona Board of Directors, Altoona, Pa. Brick, cut stone and steel, 3 stories, 221x233 feet, composition roof, mastic and maple floors, hollow tile, metal weather strips, iron stairs and work, hollow metal doors, tile and marble work, rolled steel sash, metal lath (heating, electric work and plumbing separate bids). Owners taking bids due October 16th.

Residence, Glenside, Pa. Architect, Walter L. Schulte, 3752 North Fifteenth street, Philadelphia. Owner, Edward Wall, Glenside, Pa. Stucco and frame, 2½ stories, 22x30 feet, shingle roof, hardwood and pine floors, hot air heat, electric lighting. Owner is taking bids.

Store (add.), Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Nathan Harrison, on premises. Brick and steel, 1 story, 9½x60 feet, slag roof, tile floor, hot water heat, electric light, flush bulks. Owner is taking bids.

Residence, Jenkintown, Pa. Architect, Herbert Eves, Jenkintown, Pa. Owner, J. H. Hay, Jenkintown, Pa. Stone, 2½ stories, 28x55 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner is taking bids.

Residence and Garage, Wayne road, Bywood, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Louis Heinz, care of architect. Frame and stucco, 2½ stories, 24x36 feet, garage, 10x18 feet. Owner is ready for bids.

Store and Lodge Building, Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Masonic Lodge of Philipsburg, care of William Maxwell, Philipsburg, Pa. Brick and concrete, 3 stories and basement, 60x88 feet, Johns Manville roof, concrete floors, vapor heat, electric light, tile work, hollow tile, tile work, roof ventilators. Architect taking bids due September 29th.

Residence, Wayne, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, William F. Field, Overbrook, Philadelphia. Stone, 2½ stories, 52x25 feet, slate roof, hardwood floors, tile work, hot water heat, electric lighting. Owner taking sub-bids.

Residence (alts. and add.) and Garage, Rydal road, Rydal, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Miss Anna W. Zimmerman, on premises. Stone, brick and steel, 2½ and 1½ stories, 28x26 feet and 40x25 feet, slate roof, cement, composition and pine floors, electric lighting, demolition, metal lath, tile work, iron work (heating and weather strips reserved). Architect taking bids due September 30th.

Church, York, Pa., $200,000. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, First Methodist Episcopal Church, care of Rev. Barnett H. Hart, York, Pa. Stone. Preliminary plans in progress. Too early for details.

Factory (add.), York, Pa., $250,000. Architect, not yet selected. Owners, York Mfg. Company, York, Pa. Five stories, 60x90 feet. Work contemplated.

Residence, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, R. J. Perchko, York, Pa. Hollow tile and stucco, 2 stories, 28x40 feet, slate roof, hardwood floors, hot water heat, electric light. Plans in progress.

Administration Building (alts. and add.),

Shippensburg, Pa. Architect, R. A. Starr, Guardian Trust Building, York, Pa. Owners, Cumberland Valley State Normal School, Dr. E. Lehman, principal, Shippensburg, Pa. Plastering, fireproof, stairs, hardwood and composition floors, plumbing, marble work, ornamental plaster. Plans in progress.

School, Stewartstown, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, School Board of Stewartstown, J. E. Anstine, secretary, on premises. Brick, 1 story, 137x60 feet, slag roof, hardwood floors, electric lighting, roof ventilators, dampproofing. Owners will be ready for bids October 1st.

Rectory, York, Pa. Architects, Edward Leber and J. H. Hatton, Associated, Hay Building, York, Pa. Owner, Rev. James McGrath, 231 South Beaver street, York, Pa. Brick, 3 stories, 33x60 feet, copper and tile roof, hardwood floors, vapor heat, electric light, tile and marble work. Architect will be ready for bids October 5th.

Pennsylvania Contracts Awarded

Gymnasium, Easton, Pa., $300,000. Architect, Willis Bosworth, 527 Fifth avenue, New York City. Owners, Lafayette College, Easton, Pa. Hollow tile, 1 story, basement, mezzanine, 106x110 feet, slag and copper roof, concrete and maple floors, hollow tile, waterproofing, iron work, floor hardener, kalamein doors, rolled steel skylights, metal lath, tile work. Contract awarded to Charles McCaul Co., 1713 Sansom street, Philadelphia.

Stores (3), Apartments (10), Garrett road, Upper Darby, Pa. Architect, private plans. Owner, S. Rosenwald, 2232 South Broad street, Philadelphia. Brick and steel, 3 stories and basement, 43x107 feet and 25x60 feet, slag roof, hardwood floors, hot water heat, electric lighting, tile and marble work, plate glass, metal bulks, metal ceilings. Contract awarded to Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia.

School, Penn Square, Montgomery County, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, School District of East Noriton Township, Pa. Brick, cut stone and steel, 1 story and basement, 73x41 feet, slate and slag roof, pine floors, metal lath, iron work (heating, plumbing and lighting reserved). Contract awarded to H. C. Shallcross, Gratersford, Pa., $16,375.

Store and Apartments, Ambler, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Oscar H. Stillwagon, Ambler, Pa. Brick and steel, 2 stories, 20x90 feet, slag roof, hot water heating, pine and hardwood floors, plate glass, tile work, hot water heating. Contract awarded to Roy Randall, Horsham, Pa.

Shop, Muhlenberg Township, Berks County, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, Bauman Iron Works, Muhlenberg Township, Pa. Brick, steel, 1 story, 56x126 feet, composition roof, wood floors, electric light, rolled steel sash. Contract awarded to Reading Cont. Co., 622 Court street, Reading.

School, Northmont, Reading, Pa., $78,521. Architect, F. A. Muhlenberg, 24 North Sixth street, Reading, Pa. Owners, Reading School Board, O. B. Heims, secretary, Reading, Pa. Brick and terra cotta, 2 stories, 60x35 feet, slag roof, hardwood floors, hot air heat (heating, plumbing and electric work reserved). Contract awarded to Oscar Degler, 1041-A Walnut street, Reading.

Garfield High School, Lebanon, Pa., $100,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lebanon School Board, W. P. Mock, secretary, Lebanon, Pa. Brick, fireproof, reinforced concrete, steel, 2 stories and basement, 56x123 feet, composition roof, metal lath (heating, plumbing and electric work reserved), hollow metal sash, floor hardener. Contract awarded to J. H. Greiner Co., 826 Walnut street, Lebanon, Pa.

Residence (alts.) to Apartment and Store, 36 South Ninth street, Reading. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owners, Kirst & Son, 108 North Ninth street, Reading, Pa. General interior alterations, partitions, hardwood floors, electric light, plate glass (3 stories). Contract awarded to J. C. Dethoff, 349 Penn street, Reading, Pa.

Residence, Sedgwick, Pa. Architect, Charles J. Mitchell, 23 South Sixteenth street, Philadelphia. Owner, F. E. Hipple, 1529 North Broad street, Philadelphia. Stone, 2½ stories, 39x28 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, bond, waterproofing. Contract awarded to E. J. Heinke, Twelfth and Norris streets, Philadelphia.

Club House (add.), Bala, Pa. Architects, Willing, Sims and Talbutt, 129 South Eighteenth street, Philadelphia. Owners, The Rabbit, Bala, Pa. Brick, hollow tile and plaster, 2 stories, 18x22 feet, slag roof, pine floors, electric lighting. Contract awarded to E. Allen Reeves, Inc., Abington, Pa.

School Building, Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School District, Borough of Pottstown, Pa. Brick, cut stone and steel, 2 stories, 130x66 feet, composition roof, cement and maple floors, roof ventilators, dampproofing, iron work, bond, metal lath, steam heat, electric lighting. Contract awarded to F. H. Kaiser, Pottstown, Pa. Electric, F. H. Green, 1724 Sansom street, Philadelphia. (Plumbing and heating not yet awarded.)

Residence and Garage. Merion, Pa., $30,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, T. H. Edwards, care of architect. Stone, 3 stories, 68x28 feet and 21x69 feet, slate roof, hot water heat, hardwood floors, electric light, tile, marble and cement work. Contract awarded to Mowrer Brothers, Merion, Pa.

Oil House, etc., Sixth and Spring streets, Reading, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R.R. Co., Reading Terminal, Philadelphia. Reinforced concrete, steel and brick, 1 story and basement, 75x150 feet, concrete platforms, 112x40 feet and 140 feet irregular width, 8-foot ramp, steam heating, electric lighting, asbestos roof, mastic asphalt floors, iron and steel work, bond, fire doors, rolled steel sash and skylights. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

Sunday School Chapel, Swedeland, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Alan Wood Iron & Steel Co., Widener Building, Philadelphia. Brick, cut stone, stucco and steel, 1½ stories, 69x43 feet, slate roof, composition and mineral floors, metal lath, tile work, metal ceilings, dampproofing, bond, iron work. Contract awarded to Heavner & Guthridge, Norristown, Pa.

Apartment and Store (alts. and add.), Carlisle, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, T. L. Gray, Carlisle, Pa. Brick, 3 stories, 20x60 feet, hardwood floors, electric lighting, tile and marble work, rolled steel skylights, roof ventilators. Contract awarded to Hemminger Brothers, Carlisle, Pa.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

New Jersey Construction News

Store and Apartment (add.), 2505 Federal street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Louis Klotlikof, Camden, N. J. Brick, 90x24 feet. Preliminary plans in progress.

Bank (alts. and add.), Collingswood, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Collingswood Trust Co., care of architects. New front, office partitions, interior alterations, composition floors, electric light, iron grills. Plans in progress.

Store and Office, Salem, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Smaskey & Weinberg, Salem, N. J. Brick, 2 stories, 60x100 feet, slag roof, pine floors, steam heat, electric light, tile work, metal ltth, rolled steel skylights, roof ventilators. Plans in progress.

Show Room and Service Station, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Neel-Cadillac Company, care of architects. Steel, concrete, 2 stories, 80x175 feet, slag roof, concrete floors, vapor heat, electric light, tile, marble and terrazzo work, rolled steel sash, iron stairs, ornamental iron work. Architects will be ready for bids in ten days.

Church, Ventnor avenue, Ventnor, N. J. Architect, J. H. Vaughan, Guarantee Trust Building, Atlantic City. Owner, care of architect. Hollow tile, 1 story and basement, 75x96 feet. Preliminary plans in progress.

Hotel, Ocean City, N. J., $800,000. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, J. M. Slocum, Normand Hotel, Ocean City, N. J. Fireproof, 8 stories, 232 rooms, hardwood floors, vapor heat, electric light, tile, marble and terrazzo work, hardwood floors, hollow tile, metal lath, roof ventilators, rolled steel skylights, ornamental iron work. Plans in progress. Ready for bids November 1st.

Residence and Store (alts.), Atlantic avenue, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, S. Cantor, 1115 Atlantic avenue, Atlantic City, N. J. Brick, interior alterations and additions, pine floors, electric light, copper work, plate glass. Plans in progress.

Residence, Oakland avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Mr. Wright, care of architect. Brick, stucco, frame, 2½ stories, 30x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Harry Best, Virginia avenue, Atlantic City, N. J. Brick, 2 stories, 25x55 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Garage (add.), Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Mr. Errico, care of architect. Brick, steel, third floor add., 54x171 feet, concrete floors, electric lighting. Plans in progress.

Residences (6), Alberta and Mickle streets, Camden, N. J. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Hitchner & Todd, Fifth and Mickle streets, Camden, N. J. Stone and concrete block, stuccoed, 2 stories, 16x32 feet, slag and rubberoid roof, hardwood floors, pipeless heater, electric lighting. Owners ready for sub-bids.

Store and Apartment, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, J. J. Moyer, 1919 River avenue, Camden, N. J. Cinder block,

stucco, 2 stories, 80x65 feet, slag roof, pine floors, electric light. Owner taking sub-bids.

Factory, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Hulslander Engraving Co., 8 North Stockton street, Trenton. Brick, steel, 2 stories, 30x30 feet, slag roof, pine floors, electric lighting. Plans in progress.

Club House, Flemington, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, American Legion, George Parker, Flemington, N. J. Brick, 2 stories, 20x42 feet, slate roof, hardwood floors, hot water heat, electric light, mettl lath. Plans in progress.

Residence, Morristown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, H. G. Reeder, Bordentown, N. J. Frame, 1½ stories, 30x50 feet, shingle roof, hardwood floors, electric light, tile work. Plans in progress.

Bank (alts. and add.), Morrisville, N. J. Architects, T. B. Stockham and Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Morrisville Trust Co., care of architects. Stone, 1 story, 20x40 feet, slate roof, tile floors, hollow tile, elevators, electric light (vault and bank fixtures reserved). Plans in progress.

Factory (add.), Beakes & May streets, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Essex Rubber Co., on premises. Brick and steel, 2 stories, 50x50 feet, slag roof, concrete and maple floors, electric light, waterproofing, fire escapes. Owners will be ready for bids in one week.

Bungalow, Maryland avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, D. Conley, care of architect. Frame, 1½ stories, 24x40 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due October 2nd.

Residences (4), Ventnor, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. (3 South North Carolina). Owner, R. D. Edwards, Atlantic City, N. J. Frame, 2 stories, 20x30 feet, shingle roof, parquetry floors, hot water heat, electric light, tile work. Owner taking bids.

Garage and Apartment, Atlantic City, N. J. Architect, J. H. Vaughan, Guarantee Trust Building, Atlantic City. Owner, Mr. Barfoot, 3711 Ventnor avenue, Atlantic City, N. J. Brick, 3 stories, 50x150 feet, slag roof, concrete and hardwood floors, hot water heat, electric light, tile work, rolled steel skylights. Architect ready for bids.

Apartment and Stores, Virginia avenue above Atlantic, Atlantic City. Architect, Donald Rosenheim, Humphrey Building, Atlantic City, N. J. Owner, David M. Saxe, care of architect. Brick, steel, 3 stories, 40x100 feet, slag and tile roof, hardwood floors, vapor heat, electric light, tile work, metal lath, copper work, rolled steel skylights, terra cotta, ornamental iron work. Architect will be ready for bids about October 7th.

Masonic Temple (alts.), Gloucester, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Cloud Lodge, No. 101, care of W. Leroy Goodwin, on premises. General interior alterations, slag roof, composition floors, hot water heat, electric light, plumbing fixtures, cast stone. Low bidder: R. T. Ritchie, Gloucester, N. J.

Office (alts. and add.), Northeast Corner Fifth and Cork streets, Camden. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Provident Life & Trust Co., care of architects. Brick, 3 stories, 40x60 feet, general interior alterations, electric work, plumbing. Low bidder: Thomas H. Miller, Thirty-eighth and Westfield avenue, Camden, N. J.

Warehouse, Baltic and Baltimore avenues, Atlantic City, N. J. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owners, Fleck Brothers, 50 North Fifth street, Philadelphia. Brick, 1 and 2 stories, 85x175 feet, slag roof, concrete and pine floors, hot water heat, electric lighting. Architect taking bids due October 14th.

Parish House, Somerville, N. J. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, St. John's Parish, Somerville, N. J. Stone, cut stone and brick, 1½ stories, 108x47 feet, slate roof, composition floors, pipeless heater, electric lighting. Architect taking bids due September 28th.

Pumping Station, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, Commissioner Feel, Trenton Water Works, Trenton, N. J. Concrete and stone, 1 story, 40x80 feet, slate roof, concrete floors, electric lighting. Owners taking revised bids due September 29th.

Residence (alts. and add.), Somers Point, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Mrs. R. Craighead, Craig Hall, Atlantic City. Frame, 2½ stories, 40x160 feet, asbestos shingle roof, hardwood floors, hot water heat, electri clight, tile and marble work. Architect taking bids due October 2nd.

Store and Office (add.), Atlantic avenue, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, William I. Segal, Segal Building, Atlantic City, N. J. Brick, stone, 1 story, 55x140 feet, slag roof, wood floors, hollow tile, electric light, tile and marble work. Architect taking bids due October 1st.

Store and Apartments, Woodbury, N. J. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, name withheld. Brick, 2 stories, 42x75 feet, hardwood floors, hot water heat, slag roof, electric light, tile and marble work, plate glass. Plans in progress.

New Jersey Contracts Awarded

Power Plant, State Normal School, Trenton, N. J., $29,983. Architects, Guilbert & Betelle, Newark, N. J.; Arnold H. Moses, Camden, N. J. Owners, Offire of the Commissioner of Education, State House, Trenton, N. J. Brick, limestone, cut stone and steel, 1 story and basement, 82x32 feet, wing 24x36 feet, pump house, 12x26 feet, slag roof, cement floors, waterproofing, iron work and stairs, steam heating, electric lighting. Contract awarded to Wills Bill Co., 1706 Sansom street, Philadelphia.

Store and Apartment, 219-21 Broadway, Camden, N. J., $30,000. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Baker-Schoenogle Co., care of architects. Brick and cut stone, 2 stories and absement, 40x70 feet, slag roof, pine floors, hot water heat, electric light, hollow metal skylights, bond, iron work. Contract awarded to J. M. Yardley, 1716 Sansom street, Philadelphia.

School, Glendora, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Board of Education of Gloucester County, Blackwood, N. J. Brick, 2 stories, 61x75 feet, slate roof, marle floors (plumbing, ventilators, lighting and heating separate bids). Contract awarded to George W. Shaner & Son, Palmyra, N. J., $33,884. Plumbing to Harry Knecht, West Collingswood, N. J., $1,775. Heating to Harry Knecht, West Collingswood, N. J., $5,284.

Boiler Room, North Broad street, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Castania Dairy, 234 North Broad street, Trenton, N. J. Brick, 1 story, 47x32 feet, slag roof, concrete floors, electric light, rolled steel sash. Contract awarded to S. W. Mather & Son, Greenwood and Canal, Trenton, N. J.

Hotel, Bridgeton, N. J. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owners, Bridgeton Hotel Co., Bridgeton, N. J. Brick, cut stone, granite and steel, 7 stories, 67x110 feet, slag roof, maple floors, hollow tile, metal lath, terra cotta, iron work and stairs, rolled steel skylights, tile and marble work (demolition and elevators reserved). Contract awarded to Moore & Co., Nineteenth and Cherry streets, Philadelphia.

School, Gloucester Heights, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, James R. Y. Blakely, secretary, Westmont, N. J. Brick, cut stone and steel, 2 stories, 86x25 feet, slag roof, cement and pine floors, waterproofing, iron work, electric lighting, metal lath. Contract awarded to Friel-McLeister, Inc., 2146 East Norris street.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 18, 1922. Sealed Proposals will be opened in this office at 3 P. M., October 16, 1922, for construction (except mechanical equipment) of an Infirmary Group (four brick and concrete buildings two and three stories, with a total ground area of 44,600 square feet) for the United States Veterans' Hospital, at Chelsea, N. Y. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. Before drawings and specifications are forwarded to prospective bidders, applicants must cite at least one specific instance where a record for speed has been established on a job of equivalent magnitude, giving date of award of contract, amount of contract, specified time for completion and date of actual completion. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.

At the annual election for officers and directors of the Philadelphia Builders' Exchange and Employers' Association, the following were elected:

President, Joseph M. Steele; First Vice President, John S. McQuade; Second Vice President, William M. Anderson; Third Vice-President, John P. Holleran; Treasurer, George J. Watson; Directors, John F. Buchanan, C. Stanley French, O. W. Ketcham, Amos Y. Lesher, J. Walter Maxwell, W. Nelson Mayhew, Joseph F. Summerill and Barclay White.

(Continued from page 616)

their daily occupation and, on the other hand, be conscious of and loyal to a sense of general public service and public responsibility. I am not speaking as an altruist, nor dreaming dreams of intangible things. We must learn in this business, if we have no already done so, that all large corporate interests have learned in their specific fields. The old days of figuring that we can operate our business without regard to the public have passed away, and the large corporations that are doing the best are those which are working in sympathetic co-operation in the enforcement of laws which recognize the public rights and in operating their businesses in full accord, four-square, with rational public sentiment. Of course, this would naturally develop a business consciousness, a sense of obligation in the wake of which would come more reasonable corporation throughout the entire business.

And at this point the public would come in. The abuses which have beset this industry, as they have beset all other industries, would be gradually cleaned out from within and a permanent set of business morals established which would prevent a repetition of practices which seemed to give temporary advantage, but which, in the long run, are, from a strictly business point of view, unprofitable. In the last analysis the public pays the price. Of that public we are all a part. We like to criticize the other fellow's business but we don't like him to criticize ours. But we can't prevent such criticism, no matter how we try, if it is warranted by the facts. The clear common sense of the situation then, is to put our own house in order to clear ourselves of criticism, and then to criticize the other fellow's business as freely as we wish until he in turn has done exactly the same thing.

There is no end to the practical things which may be done if we have the patience to work them out slowly. Our greatest trouble in all co-operative efforts is that we try to be independent of human equation and to endeavor to reform the world overnight, but we have reasonable expectation by the proper adjustment of the work of each craft to give us a lengthened construction season. It may not be too much of a vaporous dream to hope that ultimately we may develop such a sufficient mutual confidence as will prompt labor to co-operate in the lengthening of the number of productive days per year per man in the construction industry of this country.

It may also be possible at the same time and by the same character of co-operation to expand the apprentice system so that we may have the ranks of skilled labor continually augmented by the oncoming generations.

I keep continually coming back in my thought to a sense of this feeling of public responsibility, because I can see this Council in the great functioning which is before it exposed to the danger of thinking too exclusively in construction terms. The resulting stratification is something which we must all deplore. So when we urge this council as a means by which the industry may become articulate and represent its viewpoint to the public, we do so with the full appreciation, first, of the necessity of this articulate capacity and, second, with the appreciation that it must always consider the public interests in its expression. This does not involve entire unselfishness; it only contemplates enlightened selfishness. With this in mind, it would be a service of inestimable value if the construction industry were able to present to the transportation industry of the country a proper picture of its needs and of the service which it had a right to expect. It also would be of the greatest value if it could give public expression to its views on the financial operations of this country, because our banking structure, as a clearing house of all business, needs whatever information it can get from reliable sources. In this country we are now engaged in the task of taking a nation whose economic life was largely based upon agriculture and adding on two this agricultural base a superstructure of industry and getting the two to mould together. Between these two great forces, the agricultural and the industrial forces of the country, the banker is obliged to operate. He must provide capital for the initial production of wealth and he must direct the wealth into profitable employment after it has been produced. His position becomes one of great responsibility, and his responsibility to the public is always being impressed upon him.

Of course, there are many sides to the banking business as there are to the construction business and this is not the time or place to go into an intense analysis of of the different methods of operation. But it is in line with the topic under discussion to emphasize the fact that he must at all times conduct his business so as to command public confidence. Looking at the construction industry through the banking glasses and with the public interest generally in mind, it becomes obvious that the public cannot be adequately served when an industry lacks a class consciousness and the feeling of the responsibilities which go with its position. When the aims are not concentrated but are diffused through the various branches, such branches oftentimes being antagonistic to one another, such group interests and group antagonisms subordinate the rights of the industry as a whole and the public whom it serves. When specific groups within the industry insist upon doing things which shock the public consciousness, all of the industry must suffer by such action. Let me emphasize again, then, that the great co-operative movement which this council hopes to accomplish should result in the elimination of practices which, while beneficial to one group within the construction industry, are disastrous indeed to the industry as a whole.

This council then will also have a dual character of operation. First, it must use its influence within its own industry and, second, it must interpret that influence and that industry to the public. It must give the public an adequate picture of what the construction industry is, how it functions, the extent and character of its obligations, its ultimate needs in the way of legislation, and its determinaton to elminate bad practices from its business. It does not take many words to outline this little program, but to endeavor to fulfill it is a task which requires the greatest ability, the great devotion and, I might also add, no small amount of contribution. We know what the result will be if the building industry will do exactly what public utilities throughout the country have done in a very large way, that is, win the confidence of the public by taking the public into its confidence, create a more stable industry—and stability in industry is just as important to the public as it is to the members of the ndustry themselves. An excessive inflated condition on the one hand or a depressed condition on the other are equally unfortunate. Actual stabilization is, of course, impossible, but efforts which tend towards stabilization are not impossible, and every bit that is accomplished adds immeasurably to the public good. In the establishment of confidence and in the improvement of stability all phases of the industry will feel more sure of their position, and this great industry will more nearly come in to its own.

It is a great work full of alluring prospects and depending for its success upon the integrity of purpose and the unselfish devotion which guides it. Business is going to have its ups and downs. Conditions are very unsettled throughout the world, our situation at home, as we all know, is very largely dependent upon what happens elsewhere, but through all of this if we keep our feet on the ground and our hearts in our work, this council can go on to do constructive and practical things day by day under most magnificent leadership. I congratulate you upon your president.

I feel confident that if you all can put your hearts into the work, remembering that a nation without vision shall perish, and then stand fast, stand firm and stand true to do practical things of enduring value, you will have served to the maximum the industry to which your time is

devoted and the nation to which your lives are pledged.

In response to the many urgent requests from the representatives of the building industry in and around Philadelphia, Chairman John N. McGarvey last week formally announced the date for the second annual Building Exposition to be held under the auspices of the Philadelphia Operative Builders' Association. The date selected is the first week in April, at which time building operations are in full swing for the spring. The event will mark the second exposition held in this city and all indications point to the greatest and most representative exposition of all phases of the building industry. The tremendous success that attended last year's Exposition has influenced the committee to repeat the Building Exposition for 1923.

Thousands of Philadelphians are in the market for homes and this exposition will offer an unrivaled opportunity for them to learn how, when and where to buy or build. From an educational standpoint the exposition will be a revelation and many new and interesting features will be introduced during the week of the exposition.

The primary object of this exposition is essentially a municipal one. The housing situation has become pecularily acute and it is necessary to find some means to relieve it. Builders are displaying more activity at the present time than ever before in the history of the industry, and will be for the next two or three years. Philadelphians are looking forward eagerly to this opportunity to learn the best and most economical method in purchasing homes.

During the next six months, firms identified with building material of all kinds will be busily preparing displays and collecting information relative to home building and preparations will be made to furnish information during the week of the exposition to the many thousands of prospective home buyers. The exhibits will show every feature of the building and furnishing lines and there will be many novelties introduced.

The home building interest will be sustained throughout the exposition, which will present a panorama of buildings for the prospective builder. The latest improved equipment as well as materials will be displayed. Bathroom fixtures and equipment, lumber in virgin state and finished condition, stoves, furnaces, ranges, hardware, electrical equipment, plumbing supplies and labor saving devices will be among the many displays at the exposition.

Kitchen equipment of all kinds and materials that go into the building and maintaining of homes will be features.

Chairman John N. McGarvey, upon whose shoulders the bulk of the work of the exposition will fall, together with the fellow members of the committee, rendered the public a great service last winter by bringing before those interested the real conditions of the building industry. In discussing the exposition, Mr. McGarvey said:

"In spite of the efforts of the builders during the past year much is yet to be done to relieve the housing situation and that the public may intelligently understand conditions the exposition management will arrange for information regarding home construction which will be of inestimable benefit to prospective purchasers. To those who contemplate the early erection .of homes or the purchase of the same after they have been built by the Philadelphia Operative Builders, the exposition will be of practical assistance.

"A conservative estimate of the attendance at last year's exposition places the number at 100,000 persons. The 1923 exposition, which will offer so many acceptable hints and suggestions, will bring together a great gathering of architects, builders, engineers, contractors, property owners, while the entertainment features will more than compensate the visitors for a trip to the exposition."

That all persons interested in building will have an opportunity to obtain information without cost, admission will again be free and Daniel Crawford, Jr., president of the Philadelphia Operative Builders' Association, has guaranteed the greatest possible co-operation of his Association with the movement. A feature which will be of particular interest to the exhibitors as well as the public will be the appointment of committees from the Philadelphia Operative Builders' Association for every evening during the exposition, which will insure a full attendance of builders at all times.

HARD FACTS ABOUT CONCRETE

The Slump Test is the simplest and most practical way of determining the proper amount of water to use in mixing concrete.

The correct cement-water ratio for any concrete mixture will develop the maximum strength of the concrete. A knowledge of how to determine this ratio is a matter of importance to the builder.

The slump test is a simple, easy, and practical method of making this determination. The only apparatus necessary is a special mold, made from sheet metal preferably non-corrosive, in the form of a frustum of a cone 4 inches in diameter at the top, 8 inches in diamter at the bottom, and 12 inches in vertical height.

After thoroughly mixing the concrete is placed in the mold in three or four successive layers, each layer carefully puddled or rammed with a blunt-pointed 5/8-inch round rod. The metal mold is then removed with a steady, vertical lift, leaving the concrete free to spread at the base. The "slump," or reduction in vertical height of the pile of concrete which results, is an indication of the consistency of the mixture.

The consistency which produces concrete of maximum strength is known as a "normal" mixture, and has a slump of about one inch. A reduction in the amount of water of 10 per cent. below that required for a normal mixture will change the slump to only one-half inch, and *decrease the strength of the concrete about 30 per cent.* Increasing the water 10 per cent. above normal will result in a slump of almost three inches, and *a loss of at least 15 per cent. in strength.*

A portion of the strength of the concrete must sometimes be sacrificed in order to obtain the plasticity of mixture required by the manufacturing processes employed. For pavements, floors and large foundations, the slump should not exceed 3 inches. For thin, reinforced concrete walls where smoothness is required but compacting is difficult, a mixture with a slump of 6 or 7 inches is permissible because its wet consistency practically eliminates the necessity of tamping. *Remember: Do not make your mixture more plastic than is required by the nature of your work.*

—*Concrete Builder.*

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for October 1, 1922.

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(Signed)

Building News Publishing Co.,
Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 16th day of September, 1922.

Hugh Roberts, Notary Public.

(My commission expires April 15, 1925.)

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
General Reproduction Co.....1518 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

AUTOMATIC WATER HEATERS.
C. F. Tinnermann.....5940 Arch St., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
General Reproduction Co.....1518 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
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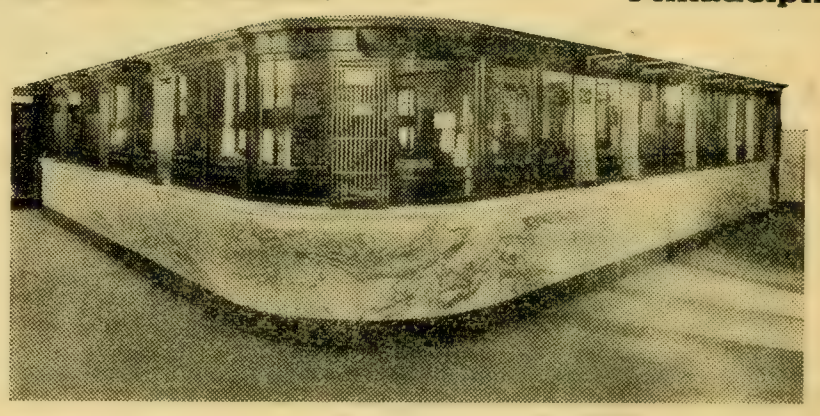
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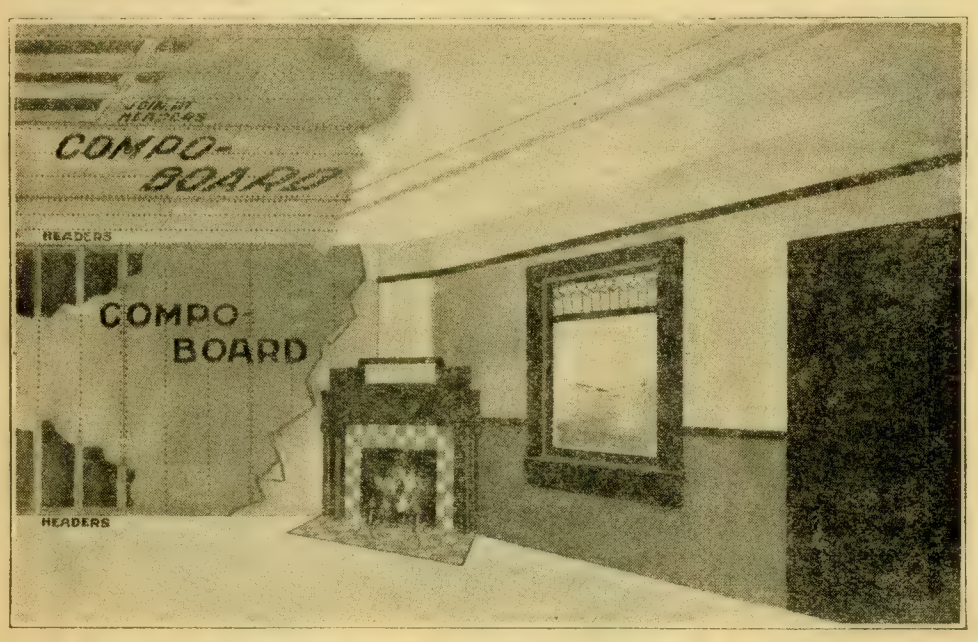
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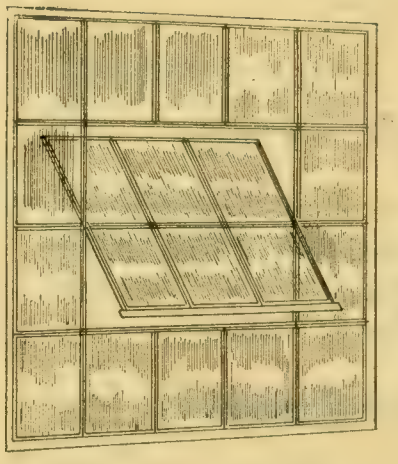
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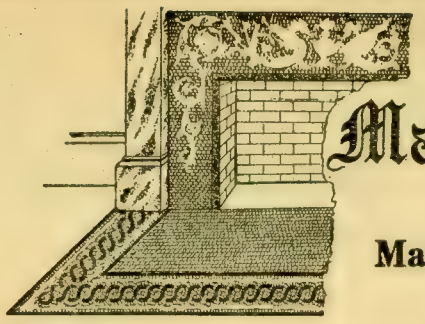
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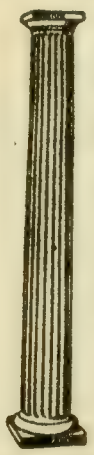
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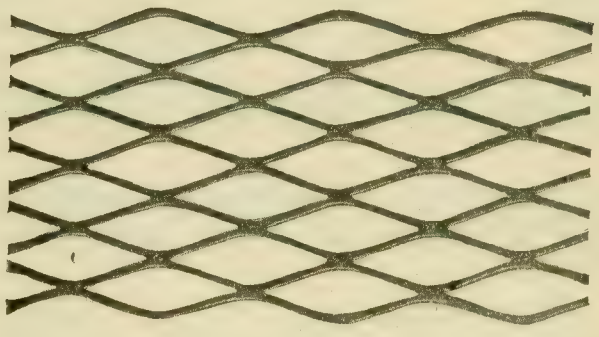


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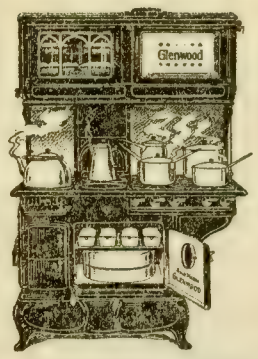
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As The Editor Sees It

A PERNICIOUS PRACTICE

Great Need to Stop Revision of Proposals After Owners Have Received Them

How to eliminate one of the most pernicious practices in the construction industry—the revision of proposals after bids have been received by the owners—is a difficult problem engaging the Associated General Contractors.

One case has just arisen where a member submitted a bid on important work, which was considerably lower than any other. The bids were opened before the bidders, but the owners, wishing to reduce the cost, asked for new bids after specifying certain minor changes.

This is an example of what was a greater practice previous to the establishment of the Associated General Contractors and its influence in attacking it than is the case now. Advantages have been taken of the individualistic nature of contracting and contractors in what was almost a universal practice of making contractors enter into price-cutting competition by first receiving bids, and then making minor changes in the plans and specifications, with the expectation that eah contractor would take a slice off his profit.

Various Ways to Overcome Practice

This situation has been overcome in different ways. In one locality, the contractors filed a copy of their proposals with the secretary of their local association with the understanding that after bids were opened by the architect the figures filed with their association would be available to every member and that no contractor other than the low bidder should submit additional figures for modification unless such modifications amount to over 0 per cent. of the figure bid.

In another case it was understood that the first, second and third bidders submit figures on modifications.

In still another instance, the contractor refused to alter their proposals and would not submit figures on modifications until after the contract had been awarded.

Going on the assumption that all who are competing would act in a business-like manner, the low bidder could submit a revised proposal based on minor changes without further cut in his estimated profit. He could persuade his competitors to refuse to submit further bids as long as he was low.

A job without profit is worse than no job at all.

DWINDLING FORESTS FORCE DECREASED USE OF LUMBER

If the food consumed by each man, woman, and child were reduced by one-third, the pinch of hunger would soon be felt and the cry of famine undoubtedly raised.

Yet substitute the word "wood" for "food" and you have exactly what has happened in the use of lumber. The per capita consumption has dropped from 500 board feet in 1900 to 316 board feet in 1920, says the Forest Service, United States Department of Agriculture.

This decreasing use of a fundamental commodity, according to forest experts, is not a result of decreasing needs but a result of forest exhaustion. It is not being accomplished without economic hardship or without curtailment of industrial expansion. It is not a temporary condition that will automatically adjust itself, for even at this reduced rate of consumption we are still cutting our forests more than 4 times as fast as they grow. The situation proclaims, according to the Forest Service, that if we are to remain a nation of timber users, we must become a nation of timber growers,

Reached Highest Point in 1906

In 1906, when American lumber production reached its highest point, the average per capita consumption of lumber in the United States was approximately 500 board feet. Since that time the per capita consumption has rapidly and consistently decreased until in 1920 the average citizen used approximately 316 board feet. This is a reduction of 37 per cent. in 13 years, or nearly 3 per cent a year. Should this decrease continue at its present rate, by 1940 the downward sweep of consumption would approach zero. This, of course, will not happen. The average consumption will ultimately

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reach a fairly stable level, which will depend mainly upon the extent to which our devastated forests are made again productive.

The consumption of lumber is not evenly distributed . Previous studies indicated that the States of the Pacific Northwest, now the last great stronghold of big lumbering operaions, had a much higher per capita consumption than those of other regions, but the present figures are the first to give information for all States upon the same basis. Naturally the greatest per capita consumption occurs where wood is plentiful and the population is relatively small. In Washington and Oregon the consumption appears to be between 900 to 1,000 board feet annually per person.

Next come California, Montana, Idaho, and Wyoming, where the rate of consumption is from 500 to 800 feet per person annually. In these States timber is relatively plentiful as compared with the density of the population, and a very considerable expansion has been taking place in the development of farms and other natural resources.

The group next lower in per capita consumption includes the Lake States, and sweeps southwesterly across the prairie States through Colorado, New Mexico, and Arizona. In this group the annual consumption is between 300 to 500 feet board measure.

Use Less Than 300 Feet

Practically all the remaining States fall into a class in which the annual consumption is 200 to 300 feet. This group extends in a broad belt from Texas along the southern and eastern Atlantic Coast to Cape Cod, Mass. It also includes North Dakota, Iowa, Utah, and Nevada.

The lowest consumption of all is in Rhode Island, the District of Columbia, South Carolina, and Georgia, in which the average consumption is rated between 100 to 200 feet per year. In the District of Columbia there is an extreme situation in density of population. No lumber is produced, there is little farming or manufacturing, and the entire population consists of urban dwellers in the city of Washington who live mainly in houses of brick and stone and require relatively little lumber. All the lumber used in the District of Columbia is imported from other States, just as it is in some of the non-timbered prairie States.

In general the older and more densely settled States show the lowest average consumption. The States characterized by heavy agricultural operations come next, and the greatest use per individual is indicated in those States where there is still considerable timber and where the extension of home building is proceeding at a rapid rate, using the abundant material provided by the forests. The States are going through an evolutionary process, building first of lumber and later of more costly materials as the forests recede before fire and axe.

THE PLASTER EXPERT ON THE JOB

It is assured that every plasterer knows how to apply gypsum plaster. You know, for instance, that if the plaster is sagging and sliding it has been mixed too thin—but suppose the water is reduced and the plaster still sags, then what? You know that if the plaster is working too stiff more water is needed—but suppose the water is added and the plaster still pulls? Or, you know how to straighten up a wall so that the plaster wil be uniformly strong, but do you know the seven other causes of weak or cracked walls, assuming the plaster to be a perfect quality? More important still, when you have located the cause of the plaster sagging, working too stiff, or cracking, do you know the easiest, quickest, cheapest and most effective way of remedying the trouble?

There are two general classes of plaster troubles: First, troubles with the working qualities of the mortar; second—and by far the greater number of the two—troubles with the completed walls. Records show that if you use a mill-tested plaster, most troubles with working quality and all troubles with set walls are caused by something other than wrong plaster. Let us first consider the three troubles that have to do with the application of the morar—quick set, slow set, and short working.

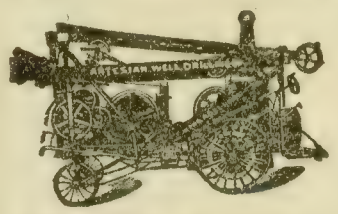
Quick Set

Suppose the plaster commences to stiffen before it can be applied. First, see if the mortar box was cleaned after the last batch was mixed, and if the tools were cleaned. because there is hardly anything that will cause plaster to set so fast as set plaster. Next, did the mortar mixer wash the tools in the water barrel that supplied water for the mix? That would cause quick set. Is the water clean? It should not be stagnant, and it better be from a well or hydrant. If water be heavily treated with alum it may be clear and still cause quick set. Examine the sand. If it is too fine, or dirty (more will be said about sand later), it will cause quick set. It's dollars to doughnuts that correcting some one of these conditions will remedy the trouble. But even if you cannot locate the cause, it's easy to make the plaster set slower.

Send to the manufacturer for some retarder and sift this over the top of the plaster and mix thoroughly. If you haven't time to get retarder, make a solution of 2 lbs. of glue to 40 gallons of water

(Continued on Page 644.)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Warehouse, 910-12-14 Cherry street, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, George B. Clopp, 3717 Filbert street, Philadelphia. Lessees, Western Electric Co., Eleventh and York streets, Philadelphia. Reinforced concrete and steel ,5 stories. Plans about completed.

Bank Building, Rising Sun and Magee streets, Lawndale, Philadelphia. Architect, John T. Brugger, 505 Chestnut street, Philadelphia. Owners, Lawndale State Bank, on premises. Brick and steel, 1 story, 35x66 feet, slag roof, concrete floors, vapor heating, electric lighting, rolled steel sash, bank fixtures, bond. Architect taking bids due October 7th.

Residences (alts. and add.), 2125-27-29 Cypress street, Philadelphia. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owners (2125-27) Mrs. Frances Spencer, (2129) Mrs. Florence J. Corbus, care of architect. Stucco, brick, steel and cut stone, 4 stories, 12x14 feet, slag roof, oak and pine floors, metal lath, plastering, plumbing, iron work, rolled steel skylights, tile work (heating, lighting and finished hardware reserved). Architect taking bids due October 12th.

Garage (add.), Ninth and Luzerne streets, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick and steel, 1 story, 71x125 feet, slag roof, cement floors, demolition, rolled steel doors, bond, iron work (heating, plumbing, electric work and elevator reserved). Architect taking bids.

Residences (4), North side Upsal street, East of Germantown avenue, $8,500. Architect, private plans. Owner, Daniel Josephson, 5405 Walnut street, Philadelphia. Brick, 2 stories, 16x68 feet, hot water heating, electric lighting, slag roof. Owner will build.

Store and Apartment, Southeast Corner Fifty-fifth and Chester avenue, $5,000. Architects, Charles W. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Wilson Fry, Nineteenth and Arch streets, Philadelphia. Brick, 3 stories, 20x25 feet, slag roof, electric lighting. Owner will build.

Residences (14), Rubicam street, North of Wister street, $4,500 each. Architect, private plans. Owners, Carson Brothers, 5601 Germantown avenue, Philadelphia. Brick, 2 stories, 15x26 feet, 9x8 feet, hot water heating, electric lighting. Owners will build.

Bank Building, Broad, Sixty-seventh avenue and Old York road, Philadelphia. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Oak Lane State Bank, Joshua M. Holmes, 6743 Old York road, Philadelphia. Stone, 1 story. Preliminary plans in progress.

Factory Building, Willow, Fifth and Randolph streets, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Paper Manufacturers' Co., F. A. O'Neill, 526 Cherry street. Brick, concrete and steel, 6 stories, 96,000 square feet floor capacity. Plans in progress.

Church and Sunday School, Lawndale, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Lawnedale Presbyterian Church, Lawndale, Pa. Stone, 85x100 feet, slate roof, steam heating, electric lighting. Plans in progress.

Storage Building, Eleventh and McKean streets, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Northern Storage & Warehouse Co., 1114 Mifflin street. Brick, concrete and steel, 3 stories, 30x40 feet, slag roof, concrete floors, electric lighting. Plans completed. Bids will be taken in spring of 1923.

Office Building, 311-13 Walnut street, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, name withheld. Brick, stone, steel and concrete. Plans about completed. Architect will take bids in ten days.

Residence, Abington avenue, West of Stenton avenue, Chestnut Hill, Philadelphia. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owner, Theobald F. Clark, 2300 Pine street, Philadelphia. Stone, 2½ stories, slate roof, hardwood floors, hot water heat, electric lighting, tile and marble work. Plans in progress.

Johnson House (alts.), 510 South Broad street, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of City Property, Department of Public Works, City Hall, Philadelphia. General alterations, plumbing, heating, electric work. Plans in progress. Owners will take bids in three weeks.

Municipal Office Building, Southeast Corner Broad and Race streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of City Property, Department of Public Works, City Hall, Philadelphia. Brick, concrete and steel, 13 stories. Preliminary plans in progress. Will take bids in spring of 1923.

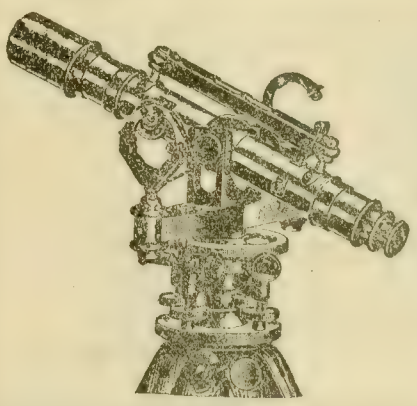
Municipal Building, Haines street and Germantown avenue, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of City Property, Department of Public Works, City Hall, Philadelphia. Brick, limestone and steel, 2 stories, 80x160 feet (heating, electric work and plumbing separate bids). Plans in progress. Will be ready for bids in two months.

Cancer Pavilion, suburb of Fox Chase, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Jeannes Hospital, care of architect. Stone, hollo wtile, steel and concrete, 2 stories and basement, 174x46 feet, slate roof, cement and composition, tile and oak floors, metal lath, iron work, rolled steel skylights, tile work (heating, lighting, ventilating and plumbing reserved). New bids will be taken in spring of 1923.

Store (alts. and add.), 636 South street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Ideal Furniture Co., on premises. Brick, 3 stories, 18x58 feet, slag roof, wood floors, metal lath, elevator, metal ceilings, metal bulks, bond, fire doors, rolled steel sash and skylights, marble work, electric lighting, hot water heating. Revised plans in progress. Architect will take new bids in one week.

Store and Residence and (31) Residences, Saul, Bridge and Pratt streets, Philadelphia. Architect, Paul L. Boyd, 6943 Limekiln Pike, Philadelphia. Owner, R. Wallace Troemner, Fifth and Roosevelt Boulevard, Philadelphia. Brick and stone, 2 stories, 16½x58¾ feet, and (31) 15½x40 feet, slag and slate roof, hardwood floors, hot water heating, electric lighting, tile work. Owner taking sub-bids.

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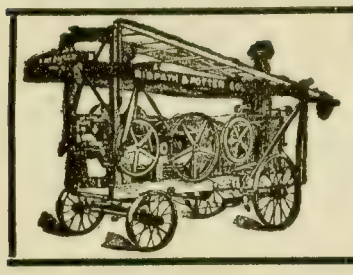
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phia. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, Jacob Factor, on premises. Brick, 1 and 2 stories, irregular size, tin roof, hardwood and pine floors, hot water heat, electric light, tile and marble work, carpentry, mill work, painting, glazing, metal ceilings, plate glass. Architects will take bids in one week.

Residences (33) (2) Basement Stores, Warrington avenue, between Fifty-seventh and Fifty-eighth streets, Phiadelphia. Architect, private plans. Owners, Shapiro & Read, Fifty-third and Chestnut streets, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hardwood floors, hot water heating, electric lighting. Owners will take sub-bids in spring of 1923.

Telephone Building, Ninth and Cherry streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, concrete and steel. Preliminary plans in progress.

Factory, Garage and Paint Shop, Fourth and Columbia avenue, Philadelphia. Architect, J. Oliver Potts, Fifth and Montgomery avenue, Philadelphia. Owners, John B. Stetson Co., Fifth and Montgomery avenue, Philadelphia. Brick, 8 stories, 62x75 feet, 1 story, 114x114 feet, and 1 story, 24x75 feet, asbestos or slag roof, concrete floors, steam heating, electric lighting, mill work, hollow metal skylights. Owners will build.

Store and Apartments (3), Louden and Marvine streets, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owners, Fox Brothers, 4814 North Broad street, Philadelphia. Brick and steel, 2 stories, 44x65 feet, slag roof, pine floors, hot water heat, electric lighting, tile work, hollow metal skylights. Owner is ready for sub-bids.

Stores and Residences (8), Residences (14), Ann, Livingston and Emerald streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Girard Realty Co., 3220 Columbia avenue, Philadelphia. Brick, 2 stories, 15x48 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work, plate glass. Owners will take sub-bids.

Store and Apartments and Sub-Basement, 319-21 South Fifty-second street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, N. Raahinsky, on premises. General alterations and add., brick, slag roof, composition floors, hot water heat, electric light, tile and marble work, mill work, plate glass, metal ceilings, steel work. Plans in progress. Architect will take bids in two weeks.

Residences (52), (2) Basement Stores, Litchfield street between Fifty-sixth and Fifty-seventh streets, Philadelphia. Architect, private plans. Owners, Shapiro & Read, Fifty-third and Chestnut streets, Philadelphia. Brick and stone, 2 stories, 16x32 feet, slag and tin roof, hardwood floors, hot water heating, electric lighting, tile work, metal bay windows. Owners will take sub-bids in one month.

Factory, Torresdale avenue and Van Dyke street, Philadelphia. Architect, C. E. Wunder, 1415 Locust street, Philadelphia. Owners, Humphreys Co., Front and Tusculum streets, Philadelphia. Brick and steel, 2 stories, 60x144 feet, slag roof, cement and maple floors, metal lath, tile work, rolled steel sash, hollow metal skylights, fire doors, bond, iron work (heating, plumbing, electric work and steel and iron work reserved). Architect taking bids due October 6th at noon.

Apartment House, 3815 Chestnut street, Philadelphia. Architect, Jesse M. Stetler, 1484 North Fifty-second street, Philadelphia. Owner, Louis M. Lifter, 1484 North Fifty-second street, Philadelphia. Brick, 4 stories, 50x215 feet, slag roof, hardwood and cement floors, metal lath, elevator and dumb waiter, terra cotta, iron work, fire doors, tile and marble work, vapor vacuum heating, electric lighting. Architect is taking sub-bids.

Store and Apartments (alts.), 5550 Walnut street, Philadelphia. Architect, Jesse M. Stetler, 1484 North Fifty-second street, Philadelphia. Owner, L. A. J. Robbins, 5548 Walnut street, Philadelphia. General alterations, pine floors, marble work, plate glass, carpentry, mill work, painting, glazing, metal bulks. Owner is taking bids.

Garage (add.), 5125 Sansom street, Philadelphia. Architect, Jesse M. Stetler, 1484 North Fifty-second street, Philadelphia. Owner, James S. Duffy, on premises. Brick and steel, 1 story, 50x70 feet, composition roof, cement floors, heating and light extensions, hollow metal skylights. Owner is taking bids.

Garage (add.), 4038 Girard avenue, Philadelphia. Architect, Jesse M. Stetler, 1484 North Fifty-second street, Philadelphia. Owner, M. Zipkin, 3923 Wyalusing avenue, Philadelphia. Brick, 1 story, 35x50 feet, slag roof, cement floors, steam heating and electric lighting extensions, hollow metal skylights. Owner will build.

Residence, Borbeck and B streets, Philadelphia. Architect, Christian H. Fries, 8237 D street, Fox Chase, Philadelphia. Owner, Mrs. Ella G. Baxter, Fox Chase, Philadelphia. Stone and shingle, 2½ stories, 41x25 feet, slate roof, oak and pine floors, hot air heat, electric light, tile work. Revised plans in progress.

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Work, Department of Public Safety, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia. Furnishing and erecting air ducts for turbine blowers on boilers Nos. 1, 2, 3 and 4, City Hall Tower Plant. Owners taking bids due October 9th at noon.

Funfield Recreation Centre, Twenty-second and Sedgley avenue, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, City Hall. Lowest bidders: Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, $123,457; Robbins Cont. Co., 1137 North Front street, $129,000. Heating, William Earley's Sons, 1216 Ridge avenue, $4,560.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, City Hall, Philadelphia. Low bidders: Allengrove street, Castor to Roosevelt Boulevard, $14,902.90; Barbre Asphalt Paving Co., Land Title Building. Front street, Erie avenue to Hunting Park avenue, $55,536.30; Hope street, Indiana avenue to Clearfield street, $3,566.90; Lebanon avenue, Sixty-sixth to Sixty-eighth streets, $23,913.66; Ludlow street, Sixty-second street to Cobb's Creek Parkway, $3,410.33; Matthews street, Wister to Woodlawn streets, $4,140.48; Stocker street, Seventeenth to Eighteenth streets, $3,715.65; Sixty-fifth street, Haverford avenue to Media street, $6,872.96; Eastern Paving Co., Colonial Trust Building, Philadelphia. Beechwood street, Snyder avenue to Jackson street, $7,751.18; Broad street, Haines street to Seventieth avenue, $22,042.93; Buist avenue, Sixty-ninth to Seventieth streets, $7,237.01; Nedro avenue, York road to Ogontz avenue, $17,689.80; Union Paving Co., Thirtieth and Locust streets, Philadelphia.

Grading—Beechwood street, Sixty-fifth avenue to Stenton avenue, $1,293.80; Cayuga street, I to L streets, $64,793.39; Walnut lane, Seventy-third to Cheltenham avenue, $7,229.76. Frank Mark Cont. Co. ,2820 North Twenty-first street, Philadelphia.

Residences (8), 5432-46 Diamond street, Philadelphia, $53,000. Architect, private plans. Owner, Hugh C. Forbes, 4600 Diamond street, Philadelphia. Brick, 2 stories, 16x46 feet and 16x33 feet, 12x12 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (8), South side Allengrove, West of Horrocks, $6,500 each. Architect, private plans. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 19x48 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (10), 5727-45 Penn street, Philadelphia, $4,500 each. Architect, private plans. Owner, W. Robinson, 7319 Rising Sun avenue, Philadelphia. Brick, 2 stories, 19 feet 10 inches x 30 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (2), East side Conden street, North of Grant avenue, $4,200. Architect, private plans. Owner, Thomas C. Copeland, Bustleton, Pa. Frame, 2 stories, 14x37 feet, shingle roof, hot air heating. Owner will build.

Residences (2), East side Tabor road, South of Cottman, and (2) West side Lawndale avenue, North of Bleigh, $4,300 each. Architect, private plans. Owner, Henry J. Tunsdale, 1006 Cottman street, Philadelphia. Brick, 2 stories, 14x37 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (2), Dittman and Pratt streets, Philadelphia, $8,300. Architect, private plans. Owner, Cezany Lakowicz, 6655 Torresdale avenue, Philadelphia. Brick, 2 stories, 14x48 feet and 16x48 feet, slag roof, hot water heat, electric light. Owner will build.

Residence, North side Shelmire, East of Palmetto street, $3,500. Architect, private plans. Owners, Davis & Kachersperger, 7301 Oxford avenue, Philadelphia. Frame, 1 story, 28x41 feet, shingle roof, oak and pine floors. Owner will build.

Residences (5), Residence and Store (1), Tenth and Wagner aveue, $37,500. Architect, private plans. Owners, Goldstein Brothers, 720 Porter street, Philadelphia. Brick, 2 stories, 14x26½ feet, 20x15½ feet, slag roof, hot water heat, electric light. Owner will build.

Stores (9), Walnut lane and Belfield avenue, $12,000. Architect, private plans. Owner, A. Leibovitz, 4045 Baltimore avenue, Philadelphia. Brick, 1 story, 27x9 feet and 15x30 feet, slag roof, pine floors. Owner will build.

Residences (7), Grangese street, West of Park avenue, $37,000. Architect, private plans. Owner, Harry C. Weller, 1338 Ruscomb street, Philadelphia. Brick, 2 stories, 16x52 feet and 16x34 feet, 13x13 feet, slag roof, hot water heat, electric light. Owner will build.

Garages (2), Rising Sun avenue, South of

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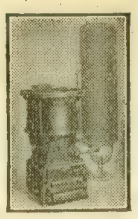
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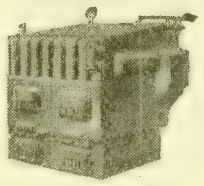
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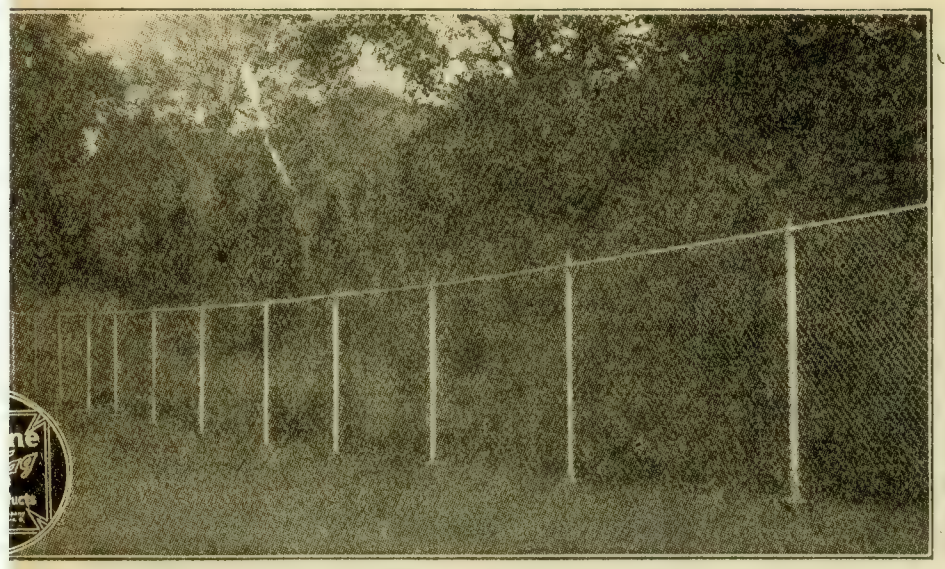
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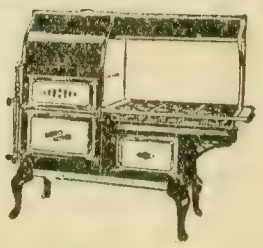
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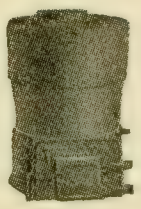
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Residences (7), Sixteenth street, North of Courtland street, $4,900 each. Architect, private plans. Owner, William Cooper, 4666 North Sydenham street, Philadelphia. Brick, 2 stories, 15x30 feet, 7½x9 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

Garage, West side Felton street, North of Catharine street, $9,000. Architect, private plans. Owner, W. J. Baylis, 6221 Catharine street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric lighting. Owner will build.

Residences (60), Camac and Chew streets, Philadelphia, $158,000. Architect, private plans. Owner, Daniel Crawford, Jr., 3904 Chestnut street, Philadelphia. Brick, 2 stories, 20x41 feet and 16x30 feet, 13x10 feet, slag roof, oak and pine floors, electric light. Owner will build.

Residence, West side Prospect avenue, South of Bustleton avenue, $15,000. Architect, private plans. Owner, D. Brewer Gehly, Somerton, Pa. Frame, 2 stories, 18½x20½ feet, 32x16 feet, shingle roof, hot water heating, electric lighting. Owner will build.

Residences (11), Sedgwick avenue and Sherman street, $8,000 each. Architect, private plans. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Stone, 3 stories, 18x34 feet, slate roof, hot water heating, electric lighting, oak and pine floors. Owner will build.

Residence, 7916 Guyers avenue, Philadelphia, $2,000. Architect, private plans. Owner, James Black, 2302 Dickinson street, Philadelphia. Brick, 1 story, 16x40 feet, slag roof, electric light, pine floors. Owner will build.

Apartment (alts.), 517 South Forty-second street, $2,000. Owner, R. Russell Jones, on premises. General alterations. Owner will build.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 21, 1922. Sealed Proposals will be opened in this office at 3 P. M., October 17, 1922, for the extension to workroom of the United States Custom House and Post Office at Fall River, Mass. Drawings and specifications may be obtained from the Custodian of site at Fall River, Mass., or at this office in the discretion of the Acting Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

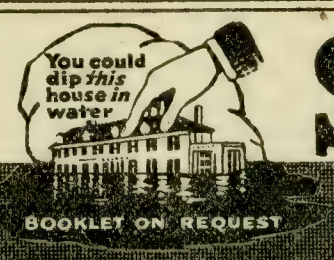
TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 18, 1922. Sealed Proposals will be opened in this office at 3 P. M., October 16, 1922, for construction (except mechanical equipment) of an Infirmary Group (four brick and concrete buildings two and three stories, with a total ground area of 44,600 square feet) for the United States Veterans' Hospital, at Chelsea, N. Y. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have

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established a record for expedition on contracts of similar character and magnitude. Before drawings and specifications are forwarded to prospective bidders, applicants must cite at least one specific instance where a record for speed has been established on a job of equivalent magnitude, giving date of award of contract, amount of contract, specified time for completion and date of actual completion. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 2, 1922.—Sealed Proposals will be opened in this office at 3 P. M., October 30, 1922, for alterations, etc., to the United States Post Office, Court House, and Custom House, at Richmond, Va., including alterations to adjoining buildings and approaches. Drawings and specifications may be obtained from the Custodian at Richmond, Va., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, 5641 North American street, Philadelphia, $4,500. Architect, private plans. Owner, John F. Schaaf, on premises. Brick, 2 stories, 16x47 feet, slag roof, hot water heating, electric lighting. Contract awarded to M. Shoemaker, 5724 North Mascher street.

Store and Storage Building, 902 Carpenter street, $3,500. Architect, private plans. Owner, Nazareo Monticelli, 904 Carpenter street, Philadelphia. Brick, 3 stories, 16x45 feet, slag roof, cement floors, electric work. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Packing House, Franklin, Callowhill and Willow streets, $120,000. Architect, private plans. Owners, Standard Provision Co., on premises. Brick and reinforced concrete, 3 stories, 160x70 feet, and 60x90 feet, concrete floors, cement floors, elevators, waterproofing, iron work, floor hardener, rolled steel and fire doors, hollow metal window frames, hollow metal skylights, rolled steel sash, tile work, electric lighting, steam heating. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Garages (39), Store and Residence, Fifty-fourth, North of Woodland avenue. Architect, private plans. Owner, H. P. Reed, 1121 South Sixty-first street, Philadelphia. Brick, 1 story, 17x9 feet, and 2 stories, 20x60 feet, slag roof, pine, hardwood and cement floors, hot water heating, electric lighting. Contract awarded to J. D. Fisher, 5424 Thompson street, Philadelphia.

Meeting House (add.), Coulter street, West of Germantown avenue, $6,300. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Germantown Friends' Meeting House, on premises. Hollow tile and stucco, 1 story, 29x15 feet, tin roof, pine floors, electric light, tile work (heating reserved). Contract awarded to I. A. Dunkelberger, 71 East Herman street.

Residences, 1924-26 Panama street, $12,000. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owner, Mr. Norman Grey, care of architect. Brick, cut stone, stucco, 3 stories, 16x12 feet, tin roof, oak and pine floors, painting, glazing, carpentry, mill work, plumbing, bond, ornamental iron work, metal lath, tile work (heating, electric lighting and finished hardware reserved). Contract awarded to F. B. Davis & Son, Inc., 240 North Sixteenth street.

Building, 1624 Arch street, Philadelphia, $30,000. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Benjamin Alexander, 209 West End Trust Building, Philadelphia. Brick, granite and artificial limestone, 2 stories, 144x24 feet, slag roof, maple floors, metal ceilings, iron work, bond, rolled steel sash, tile work, metal lath, electric lighting, demolition. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Y. M. C. A. Building (add.), Germantown avenue and Haines street, $27,500. Architect, Benjamin F. Betts, 22 South Eighteenth street, Philadelphia. Owners, Y. M. C. A., Germantown Branch, on premises. Brick and stucco, 2 stories, 59x98 feet, slag roof, maple floors, hollow tile, metal lath, steam heat, electric lighting, tile and marble work, ornamental iron work. Contract awarded to Harry Gill, Jr., 2514 Germantown avenue.

Ice Manufacturing Plant, Tenth and Windrim avenue, Philadelphia. Architect, Jesse T. Hoekstra, 1713 Sansom street, Philadelphia. Owners, Logan Ice Co., care of C. W. Roberts, Tenth and Windrim avenue. Brick, 1 story, (4) buildings, 96x182 feet, slag roof, cement floors, electric lighting, refrigerating machinery, mill work, plastering, plumbing, painting. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street.

Store and Lodge, 2856 Frankford avenue, Philadelphia, $29,000. Architect, Karl F. Otto, 5802 North Fifth street, Philadelphia. Owners, Ioska Tribe, I. O. R. M., No. 379, on premises. Brick, 2 stories, 40x60 feet and 4x20 feet, slag roof, mineral, composition and cement floors, metal lath, roof ventilators, metal ceilings, waterproofing and dampproofing, vacuum heating, electric lighting. Contract awarded to Robert Beatty & Brother, 2321 East Fletcher street.

Fraternity House (alts. and add.), 3529 Locust street, Philadelphia. Architects, Savery & Scheetz, 1309 Locust street, Philadelphia. Owners, Betta Theta Phi, on premises. Brick, 32x94 feet, general alterations, slag roof, oak and pine floors, hot water heating, electric lighting, iron work. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Machine Shop, Cottman and G streets, Philadelphia. Architect, private plans. Owner, Wilmot Fleming, 956 Foulkrod street,

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Frankford, Philadelphia. Steel, 1 story, 32x60 feet, steel roof, electric lighting, boiler, pine floors. Contract awarded to Truscon Steel Co., 1432 South Penn Square, Philadelphia.

Church (alts. and add.), Twenty-eighth and Chalmers streets, Philadelphia, $17,500. Architect, J. H. Frank, Real Estate Trust Building, Philadelphia. Owners, Mediator Lutheran Church, on premises. Port Deposit stone and steel, 1 story on basement, 46x45 feet, slate roof, maple floors (heating, plumbing and electric work separate bids). Contract awarded to P. A. Sorenson, 1133 Callowhill street, Philadelphia.

Stores and Apartments, 3331-35 Walnut street, Philadelphia, $50,000. Architect, private plans. Owner, May Ringe, 3343 Walnut street, Philadelphia. Brick, cut stone, steel and stucco, 3 stories, 106x33 feet, slag roof, composition and pine floors, demolition, hot water heat, electric lighting, tile work, iron work. Contract awarded to George H. Evans, Inc., 109 North Thirteenth street, Philadelphia.

Residences (26), Chew and Brinton streets, Philadelphia, $110,200. Architect, private plans. Owner, John S. Wurts, 1225 Land Title Building, Philadelphia. Brick, 2 stories, 15x29 feet, 11x11 feet and 18x31 feet, hot water heating, electric lighting, slag roof. Contract awarded to D. Sloan, 5242 Germantown avenue, Philadelphia.

Residences (5), West side Bennett street, South of Palmetto, $25,000. Architect, private plans. Owner, John Fred Burkhardt, 5519 North Fifth street, Philadelphia. Brick, 2 stories, 14x28 feet, 11x11 feet, hot water heating, electric lighting, slag roof. Contract awarded to Charles Sinn, 5518 American street, Philadelphia.

Garage, East side Jasper street, South of Cambria street, $10,000. Architect, private plans. Owner, Norris Margolis, 3091 Kensington avenue, Philadelphia. Brick, 1 story, irregular size, slag roof, electric light, cement floors. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

Store and Two-Family Residence (alts. and add.), Northwest Corner Twentieth and Green streets, Philadelphia, $15,000. Architect, private plans. Owner, I. Plumer, 2020 Green street, Philadelphia. Brick, 3 stories, 22x32 feet, slag roof, electric work. Contract awarded to J. Newborn, 831 North Sixth street, Philadelphia.

Bank (alts.), Northwest Corner Frankford avenue and Overington, $8,000. Architect, private plans. Owners, Oxford Bank & Trust Co., on premises. General alterations, carpentry, mill work, painting, glazing. Contract awarded to Edward T. Bender, 6014 Torresdale avenue.

Garage, 6122 Germantown avenue, Philadelphia, $7,000. Architect, private plans. Owner, Harry Ackerman, on premises. Brick, 1 story, 18½x148 feet, slag roof, cement floors. Contract awarded to V. Belmonte, 304 East Haines street, Philadelphia.

Residence, West side Forrest avenue, South of Upsal street, $7,000. Architect, private plans. Owner, Wesley Rhinehard, 1912 Haines street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, electric lighting. Contract awarded to S. S. Billingsley, 1230 East Chelten avenue.

Residence (alts.), Southeast Corner Prospect and New streets, $6,000. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, Miss E. Earle, Stenton avenue, Philadelphia. General alterations, carpentry, mill work, plastering, painting. Contract awarded to Stokes Brothers, 6723 Musgrave street, Philadelphia.

Residence, Wakeling and North streets, Philadelphia, $5,600. Architect, private plans. Owner, Robert Coady, on premises. Brick, 2 stories, 16x43 feet, slag roof, electric lighting. Contract awarded to John F. Davis, 1021 Herbert street, Philadelphia.

Residences (2), Southwest Corner Seventieth and Paschall avenue, $5,500 each. Architect, private plans. Owner, Daniel McNichol, Sixty-second and Gray's avenue, Philadelphia. Brick, 2 stories, 15x26 feet, slag roof, electric lighting. Contract awarded to George S. Roe, 6949 Saybrook avenue, Philadelphia.

Residence and Store (add. and alts.), 1407 South Fifty-eighth street, $4,800. Architect, private plans. Owner, J. M. Marcovitz, 1405 South Fifty-eighth street, Philadelphia. Brick, 2 stories, 21x12 feet, slag roof, electric lighting. Contract awarded to W. G. Kennedy, 1667 South Yewdall street.

Residences (2), Southwest Corner Princeton and Cottage streets, $4,800 each. Architect, private plans. Owners, Edwin N. Corson and M. C. Herdegen, 2123 North Eighth street. Brick, 2 stories, 34x43 feet and 16x12 feet, slag roof, electric light. Contract awarded to Edward L. Corson, 2133 North Eighth street, Philadelphia.

Residence, 7238 Oxford avenue, Philadelphia, $4,000. Architect, private plans. Owner, William H. Odenath ,6734 Oakley street, Philadelphia. Frame, 2 stories, 20x24 feet, shingle roof, electric lighting. Contract awarded to Hebsacker & Wingate, Fox Chase, Pa.

Storage Building (alts.), 28 East Rittenhouse street, $2,500. Architect, private plans. Owners, Union Transfer Co., Tenth and Spring Garden streets. General alterations. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Residence, Southeast Corner Veree road and Oakmont avenue, $7,500. Architect, private plans. Owner, J. J. Evans, 4143 North Eighth street, Philadelphia. Frame, 1 story, 44x36 feet, shingle roof, electric light, oak and pine floors. Contract awarded to Charles T. Clark, Sedgley avenue and Germantown avenue.

Residence, Northeast Corner Chelten and Lawnton avenues, Philadelphia, $7,000. Architect, private plans. Owner, John McGhee, Sixty-fifth avenue and Eleventh street, Philadelphia. Stone, 2 stories, 23x36 feet, slate roof, electric lighting. Contract awarded to Gilbert S. Smith, 1715 Chestnut street.

Office (alts.), 13-15-17 South Eighteenth street, Philadelphia, $4,000. Architect, private plans. Owner, W. F. Paul, 1303 South Twenty-second street, Philadelphia. General alterations. Contract awarded to John Drumgaule, 1112 South Twenty-second street, Philadelphia.

Storage Buildings (2), Northwest Corner Delaware avenue and Venango street, $19,000. Architect, private plans. Owner, M. L. Shoemaker & Co., on premises. Steel, brick, 1 story, 90x100 feet, cement floors. Contract awarded to Truscon Steel Co., 1432 South Penn Square.

Residences (2), South side Princeton street, West of Cottage, $3,600 each. Architect, private plans. Owner, George N. Miller, 3410 Benner street, Philadelphia. Brick, 1 story, 24x38 feet, slag roof, electric lighting. Contract awarded to S. S. Wilmer, 3211 Comly street, Philadelphia.

Residence, Southwest Corner Cottman and Montour streets, $9,825. Architect, private plans. Owner, Clayton J. Fink, 5240 Beaumont avenue, Philadelphia. Frame, 2 stories, 30x30 feet, shingle roof, electric lighting. Contract awarded to Schoppe Brothers, Verree road, Philadelphia.

Residences (2), South side Jackson street, East of Knorr, $5,400. Architect, private plans. Owner, Chris Gercke, 6938 Tulip street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, electric lighting. Contract awarded to Daniel J. Gercke, 6938 Tulip street, Philadelphia.

Garage, South side Girard avenue, East of Palmer street, $3,500. Architect, private plans. Owner, Frank M. Wilson, 500 East Girard avenue, Philadelphia. Brick, 1 story, 28x54 feet, slag roof, cement floors. Contract awarded to Harry Drake, 3139 Frankford avenue.

Office (add.), Northwest Corner Fifteenth and Callowhill streets, $3,000. Architect, private plans. Owners, Philadelphia & Reading Railway, Twelfth and Market streets, Philadelphia. Brick, 1 story add., 7x20 feet, slag roof, pine floors, electric light. Contract awarded to E. H. Keefer & Son, 1321 Rodman street.

Store (alts.), 1217 Market street, Philadelphia, $2,500. Architect, private plans. Owners, Poales, Inc., Wilmington, Del. General alterations. Contract awarded to George W. Smith, Forty-ninth and Gray's avenue.

Residence (add.), 2202 Delancy street, Philadelphia, $2,500. Owner, B. Dawson Coleman, on premises. Brick, 3-story add., 15x15 feet, electric light, heating extension. Contract awarded to William R. Dougherty, 1608 Sansom street, Philadelphia.

Residence and Store (add.), Northeast Corner Fifty-fourth and Girard avenue, $2,500. Architect, private plans. Owners, Samuel and Margaret Ellis, on premises. Brick, 1 story add., 17x18 feet, electric light, pine floors. Contract awarded to N. Stotnekos, 5321 Girard avenue, Philadelphia.

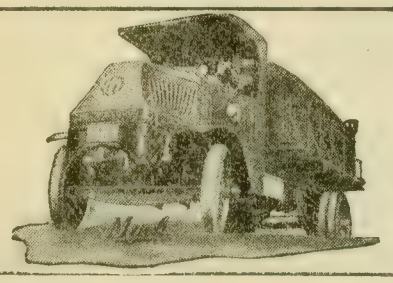
Hospital (alts.), Southeast Corner Front and Lehigh avenue, $2,000. Owners, Episcopal Hospital, on premises. General alterations. Contract awarded to Frank E. Wallace, 1220 Chancellor street.

Residence and Store (add.), 6406 Woodland avenue, $2,700. Architect, private plans. Owner, Joseph Siegel, on premises. Brick, 1 story, 16x15 feet, slag roof, pine floors. Contract awarded to P. Lessarky, 208 Arch street, Philadelphia.

Residence and Office (alts.), 415 South Twentieth street, Philadelphia, $2,000. Owner, Joseph B. McConnell, on premises. General alterations. Contract awarded to T. B. Monoghan, 2009 Sansom street, Philadelphia.

Garage, 3430 Crawford street, Philadelphia, $2,000. Architect, private plans. Owner, Mary E. Fletcher, 3428 Crawford street, Philadelphia. Brick, 1 story, 18x85 feet, slag roof, cement floors. Contract awarded to John A. Davies, 815 East Tioga street.

Church, 695 West Johnson street, Philadelphia, $2,000. Owners, Blue Bell Methodist Episcopal Church, care of builder. Frame,



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WAR DEPARTMENT

1 story, 22x37 feet, pine floors, electric light. Contract awarded to James D. O'Neill, Ogontz, Philadelphia.

Residence and Store (alts.), 2630 North Twenty-ninth street, $2,000. Architect, private plans. Owner, S. Toll, on premises. General alterations. Contract awarded to I. Farbstein, 911 Ritner street, Philadelphia.

Residence (alts.), 409 Green Lane, Philadelphia, $2,000. Architect, private plans. Owner, Thomas J. Emery Post, on premises. General interior alterations. Contract awarded to C. M. Swartley & Son, 6835 Ridge avenue.

PENNSYLVANIA
Construction News

Oak Brook Branch Bank, Oak Brook, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading National Bank, Reading, Pa. Brick and terra cotta, 30x53 feet, Carey roof. Plans in progress.

School, Mt. Penn, Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owners, Mt. Penn School, W. Edgar Bates, secretary, Mt. Penn, Reading, Pa. Brick, 1 and 2 stories, 38x160 feet, Spanish tile roof, maple floors, hollow tile (heating, plumbing and electric work reserved), roof ventilators, waterproofing, dampproofing. Owners will take revised bids due October 18th.

High School, Bridgeport, Pa. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, Board of Education, Bridgeport, Pa. Brick, cut stone, steel and stucco, 2½ stories, 164x69 feet, composition, tin and slag roof, cement and pine floors, metal lath, rolled steel skylights, bond, iron stairs and iron work, waterproofing. All bids rejected. Architect will take new bids from same builders in two weeks.

Church and Sunday School, Bloomsburg, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, St. Matthew's Lutheran Cong., Rev. J. E. Byers, Bloomsburg, Pa. Stone. Preliminary plans in progress. Too early for details.

Hotel, Hazleton, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, George B. Markle, Hazleton, Pa. Stone, brick, steel and terra cotta, 9 stories, 95x150 feet. Plans in progress. Too early for details.

Garage, Cynwyd, Pa., $20,000. Architect, John C. Norton, Ardmore, Pa. Owner, name withheld. Hollow tile and steel, 1 story, 51½x97 feet, Certainteed roof, cement floor, steam heat, electric light. Plans in progress.

Single Residences, Beechwood Park, Pa., $9,000. Architect, John C. Norton, Ardmore, Pa. Owner, Samuel Baronisky, Ardmore, Pa. Frame and plaster, 2½ stories, 26x36 feet, hardwood floors, hot water heat, electric light, tile work. Plans completed. Owner will take general bids in one week.

Residence, Berwyn, Pa., $8,000. Architect, John C. Norton, Ardmore, Pa. Owner, Fred Royster, Strafford, Pa. Frame, brick, 2½ stories, 20x30 feet, pine floors, hot water heat, electric light. Plans in progress.

Church, Paxtang, Harrisburg, Pa. Architects, W. W. Johnston and B. E. Starr, Spooner Building, Harrisburg. Owners, Paxton Presbyterian Church, Rev. G. W. King, Paxtang, Pa. Stone, 1 story and basement, 35x65 feet, slate roof, hardwood floors, steam heat, electric light, metal lath, waterproofing and dampproofing. Architect will be ready for bids in one week.

Manufacturing Building, Carlisle, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, care of Mr. Herr, Green and Woodbine streets, Harrisburg, Pa. Brick, fireproof, 1 and 2 stories, 88x100 feet, composition roof, concrete floors, steam heat, electric light, hollow tile, metal lath, rolled steel sash and skylights, roof ventilators, hollow metal doors, floor hardener. Architect will be ready for bids in a few days.

Residence, Ardmore Park, Pa., $9,000. Architect, John Charles Norton, Ardmore, Pa. Owner, L. White, Ardmore, Pa. Frame and plaster, 2½ stories, 24x36 feet, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owner will build.

Store and Apartment, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Walter Stadt, Bethlehem, Pa. Brick, 2 stories, 25x50 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work, metal ceilings. Plans in progress.

Store and Apartment, Bangor, Pa. Architect, C. F. Spangenberg ,504 Broadway, Bethlehem, Pa. Owner, Max Polliner, Bangor, Pa. Brick, 3 stories, 50x102 feet, slag roof, hardwood floors, steam heat, electric light, metal ceilings, waterproofing and dampproofing. Plans in progress.

Garage, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, J. F. Stefko, 704 East Third street, Bethlehem, Pa. Fireproof, steel and brick, 1 story, 50x100 feet, slate roof, concrete floors, electric light, rolled steel sash. Plans in progress.

Moving Picture Theatre, Lehighton, Pa. Architects, Tilghman Moyer Co., 824 Hamilton street, Allentown, Pa. Owners, Bayer Theatre Company, Lehighton, Pa. Brick, 1 story, 62x111 feet, slag or Barrett roof, cement floors, hot air heat, hollow tile, metal lath, roof ventilators, floor hardener. Plans in progress. Architects will build.

Office Building, Center Square, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Conestoga Traction Co., W. W. Griest, president, 15 East Orange street, Lancaster, Pa. Granite and terra cotta, 14 stories, 60x90 feet, tile roof, hollow tile, electric light ,metal lath, tile and marble work, (3) elevators, roof ventilators, rolled steel sash and skylights, waterproofing and dampproofing. Plans in progress.

Residence, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, H. J. Pearson, on premises. Frame, stucco, 1½ stories, 24x32 feet, composition roof, hardwood floors, hot air heat, electric light. Plans in progress.

Store and Apartment (alts.), Dorry street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, W. A. Geinert, Derry, Pa. Brick, 3 stories, 25x60 feet, composition roof, plate glass, fire escape. Plans in progress.

Bank, Auditorium, Apartment and Stores, Sixth and Maclay streets, Harrisburg, Pa. Architect, R. R. Markley, 9 North Market Square, Harrisburg, Pa. Owners, Brotherhood Relief and Compensation Fund, care of F. G. Smith, 271 Broad street, Harrisburg, Pa. Steel, fireproof, 12 stories, 124x127 feet, 80x33 feet, hardwood floors, hollow tile, electric light, tile and marble work, (5) elevators, rolled steel sash, hollow metal doors, roof ventilators, waterproofing and dampproofing, ornamental iron work. Plans in progress.

Factory, York, Pa. Architect, R. R. Markley, 9 North Market Square, Harrisburg, Pa. Owners, Ryerton Auto Specialty Co., York, Pa. Steel, brick and concrete, 4 stories, 103x63 feet, built-up roof, concrete floors, hollow tile, electric light, rolled steel sash, fire doors, waterproofing and dampproofing. Plans in progress.

Warehouse and Sales Room, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, name withheld. Steel, fireproof, 1 story, 100x150 feet, slag roof, concrete floors, electric light, roof ventilators, rolled steel sash. Plans in progress.

Operation of Bungalows, Paoli Manor, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Michaelsen & Nicholson, Land Title Building, Philadelphia. Concrete block and frame, 1½ stories, 24x36 feet and larger, shingle roof, pine floors, pipeless heaters, electric lighting. Owners are taking sub-bids.

Residence, Bryn Mawr, Pa., $9,500. Architect, John C. Norton, Ardmore, Pa. Owner, M. Simon, Bryn Mawr, Pa. Penn building block, 2½ stories, 26x36 feet, hardwood floors, hot water heat, electric light, tile work. Owner ready for general bids.

Residence, Ardmore, Pa., $8,500. Architect, John C. Norton, Ardmore, Pa. Owner, Frank Di Buonavenduro, Ardmore, Pa. Stone and frame, 2½ stories, 26x36 feet, shingle roof, hardwood floors, hot water heat, electric light. Plans completed. Owner ready for general bids.

Garage, Bryn Mawr, Pa. Architect, John C. Norton, Ardmore, Pa. Owner, Samuel Spiegelman, Bryn Mawr, Pa. Brick and steel, 1 story, 37x80 feet, Certainteed roof, cement floors, steam heat, electric light. Plans completed. Owner ready for bids.

Residence, Pottsville, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Charles H. Leaman, Pottsville, Pa. Tapestry brick, 2½ stories, 50x32 feet, slate roof, hardwood floors, vapor heat, electric lighting, plumbing, tile work. Owner will take bids from local contractors.

Cabin, Camp Owaissa, Pocono Pine, Pa. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Mrs. O. H. Paxson, 2114 Bryn Mawr avenue, Overbrook, Philadelphia. Half timber, 2 stories, 40x40 feet, 12-foot porches around 3 sides, shingle roof, pine floors, electric lighting, stone fireplaces. Owner will take bids.

Hall Building (alts. and add.), Conshohocken, Pa. Architects, United Engineering Co., 232 Walnut street, Philadelphia. Owners, Knights of Columbus, Walter J. Daly, Grand Knight, Conshohocken, Pa. Brick, stone and steel, 2 stories and mezzanine, add. 35x50 feet, general rebuilding of old hall, slate roof, maple floors, hot water heating, electric lighting, tile work, stucco work. Plans in progress. Architect will be ready for bids in one week.

Residence, Ardmore, Pa. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, Daniel Fraser, Ardmore, Pa. Stone, 2½ stories, 35x40 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress.

Residence, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Thomas Barris, 19 West Sixth street, Darby, Pa. Frame and stucco, 2½ stories, 25x55 feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress.

Residence, Ardmore, Pa., $9,500. Architect, John C. Norton, Ardmore, Pa. Owner, Walter Parker, Ardmore, Pa. Frame and plaster, 2½ stories, 24x40 feet, pine floors, hot water heat, electric light. Owner ready for bids.

Residence, Lititz, Pa. Architect, E. C. Ur-

ban, Woolworth Building, Lancaster, Pa. Owner, Wayne Fahnestock, Lititz, Pa. Stone and stucco, 2½ stories, 44x28 feet, slate or tile roof, hardwood floors, electric light, tile and marble work. Owner is building.

Ardmore Exchange (alts. and add.), 42 West Lancaster avenue, Ardmore, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 3 stories, 40x28 feet and 11x23 feet, slag roof, concrete floors, metal lath, waterproofing, terra cotta, iron stairs and work, bond, hollow metal sash, tile and marble work, demolition, steam heating, electric lighting. Architect taking bids due October 6th.

Wilkes-Barre Exchange, Wilkes-Barre, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, third floor add., 152x24 feet, and three story add., 36x36 feet, slag roof, concrete floors, metal lath, waterproofing, terra cotta, iron stairs and work, bond, hollow metal sash, tile and marble work, demolition, steam heating, electric lighting. Architect taking bids due October 6th.

Lansdowne Exchange, 22 East Baltimore avenue, Lansdowne, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 3 stories, 32x20 feet, slag roof, concrete floors, metal lath, waterproofing, terra cotta, iron stairs and work, bond, hollow metal sash, tile and marble work, electric light, steam heat, demolition. Architects taking bids due October 6th.

Twin Residence (first pair of operation), Andrews avenue, Collingdale, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Christian Hansen, Penn Boulevard, East Lansdowne, Pa. Stone, brick and steel, 3 stories, 16x46 feet, slate roof, pine floors, hot water heat, electric lighting. Owner is taking sub-bids.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa. Owners taking bids due October 17th at 10 A. M.

Allegheny County, Route 187, Wilkins, Penn and Patton Townships, 29,200 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $4,000.

Armstrong County, R-213, Brady's Bend Township, 22,107 feet. One course reinforced concrete. Certified check, $4,000.

Beaver County, R-77, Homewood Borough, 2,689 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $1,000.

Beaver County, R-243, Industry Township, 21,978 feet. Either bituminous surtace course on concrete foundation or one course reinforced concrete. Certified check, $4,000.

Beaver County, R-243, Borough and Industry Tohnship, 16,500 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $3,500.

Berks County, A-1664, Richmond Township, 11,237 feet. One course reinforced concrete. Certified check, $2,000.

Columbia County, R-4, Scott and Centre Townships, 26,506 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $4,000.

Columbia County, R-4, Center Township and Briar Creek Borough, 21,788 feet. Either bituminous surfae course on concrete foundation or one course reinforced concrete. Certified check, $4,000.

Jefferson Countu, A-1958, Brookville Borough, 1,921 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $1,000.

Lackawanna County, A-1975, Old Forge Borough, 5,861 feet. Either bitusinous surface course on concrete foundation or one course reinforced concrete. Certified check, $1,500.

Lackawanna County, A-1976, Mooses Borough, 4,615 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $1,500.

Lancaster County, A-2095, R-344, Quarryville Borough ,1,452 feet. One course reinforced concrete. Certified check, $1,000.

Lawrence County, R-77, North Bealer Township, New Castle City, 2,893 feet. One course reinforced concrete. Certified check, $1,000.

Lehigh County, R-226, A-1523, North Whitehall and Heidelberg Townships, 24,077 feet. One course reinforced concrete. Certified check, $4,000.

Lehigh County, R-163, Slatington Borough, 3,665 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $1,000.

Mercer County, A-2107, Hickory Township, 2,023 feet. One course reinforced concrete. Certified check, $1,000.

Monroe County, A-1963, Pocono and Paradise Townships, 7,051 feet. Bituminous macadam (penetration method) on broken stone base. Certified check, $1,500.

Northampton County, R-165, Bangor Borough, 4,786 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $1,000.

Venango County, A-1981, Rouseville Borough, 4,108 feet. One course reinforced concrete. Certified check, $1,000.

York CCounty, R-333, Fairview and Newberry Townships, 20,274 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $4,000.

York County, R-250-333, Fairview Township, 22,640 feet. One course reinforced concrete and hillside vitrified brick. Certified check, $4,000.

Venango County, R-207, Bridge, Suger Creek Township, Station 1112, 167 feet long. Certified check, $1,500.

Pennsylvania Contracts Awarded

Superstructures (6), Enola, Pa.; **(7)**, Pitcairn, Pa. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, concrete and steel, 1 story, 1 each of first six at each location, freight car repair shop, 620x100 feet, oxygen and acetylene storage building, 1 story, 31x16 feet, paint storage and air brake shop, 1 story, 61x16 feet, paint shop and bake oven, 1 story, 424x100 feet, store house building, 202x42 feet, oil house, 1 story, 25x13 feet, rivet cutting building (Pitcairn only), 1 story, 200x36 feet, slate, shingle and Barrett spec. roof, cement floors, iron work, floor hardener, bond, rolled steel sash, metal lath, steam heating, electric lighting. Contract awarded to W. M. Sutherland Const. Co., St. Louis, Mo.

Club House and Auditorium, Lykens, Pa. Architect, Carl P. Berger, 1422 South Penn Square, Philadelphia. Owners, Lykens Lodge, No. 1176, L. O. O. M., Lykens, Pa. Brick and steel, 3 stories and basement, 48x140 feet, slag roof, cement, tile and pine floors, hollow tile, dumb waiter, roof ventilators, iron work and stairs, fire doors, electric lighting, tile work, metal lath, steam heating (electric fixtures, papering and decorating reserved). Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

Barn, Laurelton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Pennsylvania Village for Feeble-Minded Women, Laurelton, Pa. Stone, 1 story, 37x74 feet, frame roof, cement floor, electric work, plumbing. Contract awarded to H. A. Moore Co., Inc., Milton, Pa. Plumbing, M. T. Riley, Milton, Pa. Electric, Nusbaum & Bro., 2023 Sansom street, Philadelphia.

Residence and Garage, Swarthmore, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, James H. Irvine, Sixth and Chestnut streets, Philadelphia. Stone, 2½ and 1½ stories, 41x41 feet and 15x23 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile work, bond. Contract awarded to George W. Gregory, Swarthmore, Pa.

Store and Auditorium, Bywood road, West of West Chester Pike. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owner, Terence Smith, 3819 Hamilton street, Philadelphia. Brick and steel, 2 stories and basement, 45x100 feet, slag roof, pine and maple floors, hot water heating, electric lighting. Contract awarded to Herbert H. Conway.

Water Supply, Sewage Disposal Plant and Pump House, Newtown Square, Pa. Architect, private plans. Owners, Ellis College, on premises. Reinforced concrete, 25x25 feet, waterproof concrete floors. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Residence, No. 44, Kent road, Wynnewood, Pa. Architect, Frank R. Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 43x25 feet, shingle roof, oak and pine floors, tile work, iron work (heating, lighting and plumbing reserved). Contract awarded to John E. Kearney, 34 South Seventeenth street, Philadelphia.

Residence, Ardmore Park, Pa., $9,600. Architect, John C. Norton, Ardmore, Pa. Owner, Harry Barmon, Bryn Mawr, Pa. Frame and plaster, 2½ stories, 24x36 feet, hardwood floors, hot water heat, electric light, tile work. Contract awarded to John Weaver, Ardmore, Pa.

Twin Residence, Ardmore, Pa., $12,000. Architect, John C. Norton, Ardmore, Pa. Owners, Harrison Brothers, Ardmore, Pa. Penn building block, 2½ stories, 36x48 feet, electric lighting, hardwood floors. Contract awarded to Harry Brown, Ardmore, Pa.

Residence (alts. and add.), Merion, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Mrs. Walter Hartel, Merion, Pa. Carpentry, mill work, plastering, painting, copper roof, oak floors, metal lath, electric lighting, tile work, bond. Contract awarded to Charles C. Pace, Merion, Pa.

Residence (alts. and add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. W. Herdenbau, Lancaster, Pa. Frame, 2 stories, 30x40 feet, shingle roof, hardwood floors, hot water heat, electric light, plumbing. Contract awarded to H. L. Wyant, Lancaster, Pa.

Residence, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. Penrose Ruhl, Lititz, Pa. Brick, 2½ stories, 30x38 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath. Contract awarded to Hershey Leaman, Lititz, Pa.

Fraternity House, Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Altha Tau Oneda Fraternity, Allentown, Pa. Brick, limestone, 3 stories and basement, 33x70 feet, slate roof, hardwood floors, electric light, tile work, metal lath. Contract awarded to Adam Hertzog, Allentown, Pa.

Twin Residence, Allentown, Pa. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owner, A. Loba, Allentown, Pa. Brick, hollow tile and stucco, 2½ stories, 40x120 feet, tile roof, hardwood floors, hollow tile, vapor heat, electric light, tile and marble work. Contract awarded to Yeakel & Koehler, Allentown, Pa.

New Jersey Construction News

Bank Building (alts. and add.), Haddon and Kaighn avenues, Camden, N. J. Architect, private plans. Owners, Parkside Trust Co., on premises. Brick, 1 story, 34x21 feet, slag roof, cement and pine floors, demolition, iron work (heating and finished hardware reserved), electric lighting. Owners taking bids due October 4th.

Laundry Building and Boiler House, Trenton, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Mercer Hospital, Trenton, N. J. Brick and steel, 2 stories, 57x17 feet, wing 24x40 feet, boiler house, 1 story, 42x25 feet, wing 16x14 feet, slate roof, cement floors, metal lath, iron work, rolled steel sash. Contract awarded to Karno Smith, Trenton, N. J.

Bank (alts. and add.), Collingswood, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Collingswood Trust Co., Dr. T. W. Madden, Collingswood, N. J. New front, office partitions, interior alterations, electric lighting, composition floors, iron grills. Architect ready for bids.

Store (alts.), Oriental avenue, Atlantic City, N. J. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, M. Metz, on premises. New front, minor alterations. Plans in progress. Architect will take bids in one week.

Residence, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owner, Louis Brandt, 20 Belmont avenue, Trenton, N. J. Brick, 2½ stories, 16x50 feet, slate roof, hardwood and pine floors, hot water heat, electric light. Architect will be ready for bids in one week.

Church, State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Christian Science Church, care of architect. Brick and frame, 1 story, 40x80 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved, tile work. Revised plans in progress.

Elks Club, Fowler street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, I. B. P. O. E., Sunlight Lodgee, No. 144, Mr. F. Kinney, Trenton, N. J. Brick, steel, 2 stories, 60x80 feet, slag roof, maple floors, steam heat, electric light, tile and marble work, metal lath, hollow tile. Revised plans in progress.

Residence, Paterson, N. J. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, G. Kremer, Paterson, N. J. Hollow tile and stucco, 2½ stories, 48x36 feet, slate roof, hardwood floors, vapor heat, electric lighting, plumbing, tile work. Owner will take bids from local contractors.

Residence, Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Irvin S. Collins, Moorestown, N. J. Hollow tile and stucco, 3 stories, 40x80 feet, slate roof, hardwood floors, vapor heating, electric lighting, tile work, 6 baths. Stewart L. Haines, Moorestown, N. J., is taking sub-bids.

Bank Building, Atlantic City, N. J. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Equitable Trust Co., Atlantic City, N. J. Brick, granite, limestone and steel, 2 stories and basement, 48x96 feet, slag roof, cork, maple and cement floors, metal lath, iron work, tile and marble work, rolled steel sash and skylights. Architects taking bids, due October 5th.

School, Cinnaminson, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Board of Education, Township of Cinnaminson, Burlington County, N. J. Brick and steel, 2 stories, 85x50 feet, slag roof, cement and maple floors, metal lath, tile work, hollow metal sash, bond, iron work. Lowest bidders: George W. Shaner & Son, Palmyra, N. J., $46,198; Hugh B. Miller, Edgewater Park, N. J., $46,644.

Apartment House, West Collingswood, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Louis Blase, care of architect. Brick, 2 stories, 40x65 feet, slag roof, pine floors, hot water heat, electric light. Owner will take sub-bids.

County Building, Woodbury, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Gloucester County, Woodbury, N. J. Limestone, brick, concrete and steel, 3 stories and basement, 97x117 feet, concrete and slag roof, concrete and maple floors, brick work, vapor or steam heat, electric lighting, tile and marble work. Plans in progress.

New Jersey Contracts Awarded

Office, Trenton, N. J. Architect, Wm. Kleman, First National Bank Building, Trenton, N. J. Owners, Standard Fire Insurance Co., 15 W. State street, Trenton, N. J. Fireproof, 2 stories and basement, 60x100 feet, slag roof, hardwood floors, electric light, metal lath, steel sash. Contract awarded to S. H. Mather & Son, Greenwood and Canal, Trenton, N. J.

Storage Building, Trenton, N. J. Architects, Wm. Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owners, County of Mercer, care of architects. Brick and steel, 2 stories, 73x77 feet, slag roof, concrete floors, electric light, rolled steel sash, fire doors, floor hardener. Contract awarded to F. B. Johnson Co., Trenton, N. J.

Store and Office (alts.), 315 Broadway, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, M. Futernick, 215 Broadway, Camden, N. J. Store front, plate glass, slag roof, hardwood floors, electric light, tile work, rolled steel skylights, roof ventilators. Contract awarded to Sol. Jfrisch, 2196 Federal street, Camden, N. J.

Office (alts. and add.), northeast corner of Fifth and Cork streets, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Provident Life and Trust Co., care of architects. Brick, 3 stories, 40x60 feet, general interior alterations, electric light, plumbing. Contract awarded to Thomas H. Miller, Thiry-eighh and Westfield streets, Camden, N. J.

Residence, New Brunswick, N. J. Architects, Wm. Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owner, Irving Laurie, New Brunswick, N. J. Frame and stucco, 2½ stories, 30x70 feet, Spanish tile roof, hardwood floors, electric light, tile and marble work. Contract awarded to George B. Rule, New Brunswick, N. J.

Miscellaneous Construction News

Hotel Building, Bay Ridge, Md., $220,000. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owners, Bay Ridge Hotel Co., Bay Ridge, Md. Timber, brick, terra cotta, 2 stories. Preliminary plans in progress.

Residence, Streetsville, Ontario, Canada. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Joseph Weylie, Streetsville, Ontario, Canada. Hollow tile, 2½ stories, 45x36 feet, slate roof, hardwood floors, vapor heating, electric lighting, plumbing, tile work. Owner will take bids.

Residence, Hartford, Conn. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Robert D. Swain, Hartford, Conn. Hollow tile and stucco, 2½ stories, 48x35 feet, slate roof, hardwood floors, vapor heating, tile work, plumbing. Owner will take bids from local contractors.

Board of Temperance Office and Apartment Building, Maryland avenue and First street, N. W., Washington, D. C. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Temperance, Prohibition and Public Morals, of the Methodist Episcopal Church, Washington, D. C. Architect taking bids, due October 12th at noon.

(Continued from Page 632.)

(four-fifths of a barrel full), and use an average 12 quart pail of this solution to each 100 lbs. sack of plaster, with plain water in the gauging. A little molasses or glue water will aso turn the trick.

Do not confuse dried out mortar with quick set mortar; dried out mortar crumbles between the fingers, whereas quick set mortar feels hard and firm.

You understand, no doubt, that gypsum mortar cannot be re-tempered after it has started to set, and that one gauging should not be mixed with another.

Slow Set

When plaster properly mixed has a tendency to slip from the wall and sag on the ceiling, or to dry out instead of setting, the plaster is apt to be too slow setting. This condition, as in the case of the quick setting plaster, is more than likely to be due to local conditions. One thing that may cause slow set is impure water, such as water that contains sulphur or considerable vetgetable matter.

When plaster is slow setting, it is best to send for accelerator, which is put up in convenient packages, on which are printed full directions. As an immediate expedient, scrape the bottom and sides of the mortar box, or pulverize some set plaster and throw it into the mix. The addition of a little hydrated lime, portland cement, or alum water will also quicken the set. About 2 bs. of alum should be put into forty gallons of water (four-fifths of a barrel full), and a 12 quart pail of this solution used to each 100 pound sack of plaster in the gauging.

It might be said here that none of the ingredients which have been recommended here for slowing or quickening the set of plaster will injure the wall.—*The Plasterer.*

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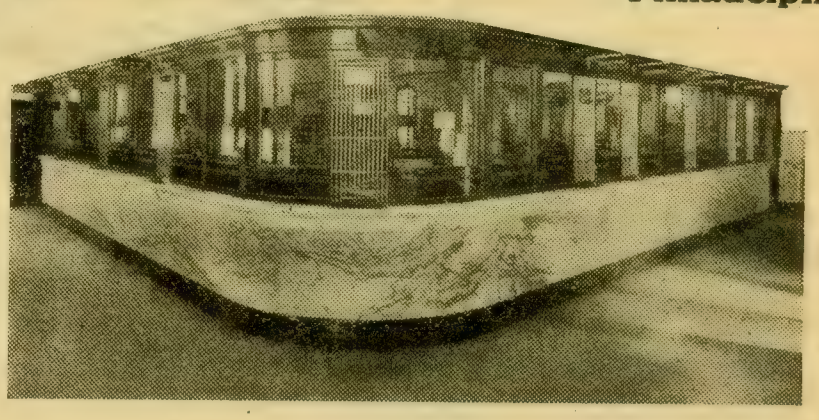
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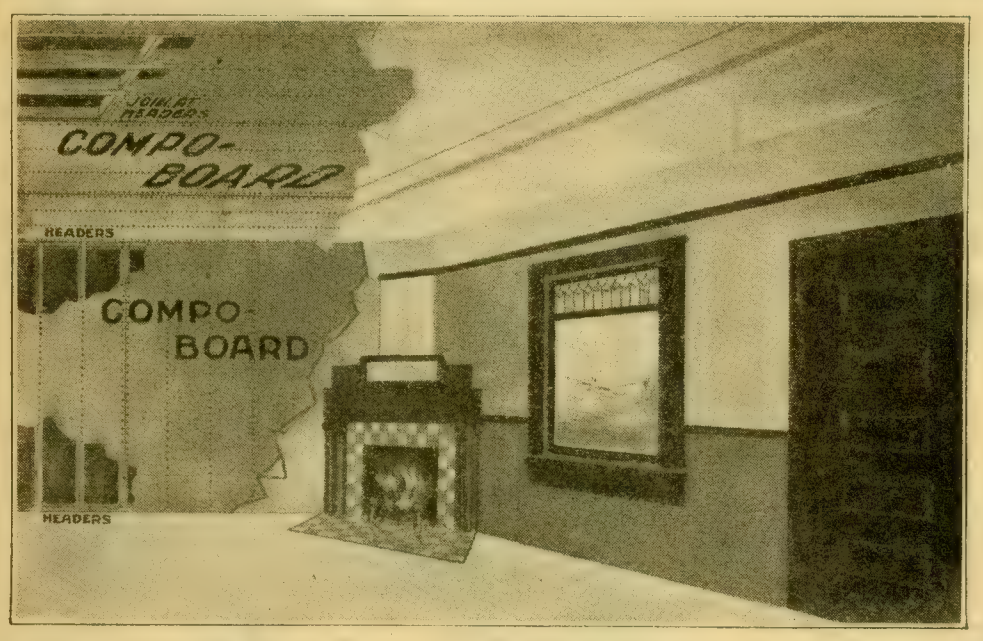
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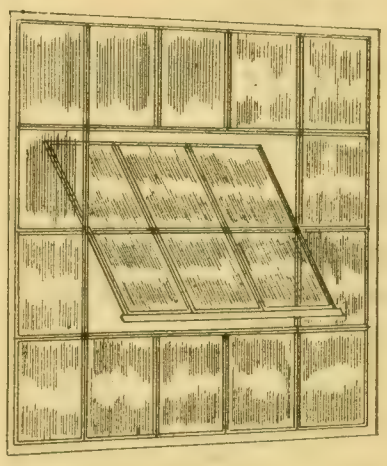
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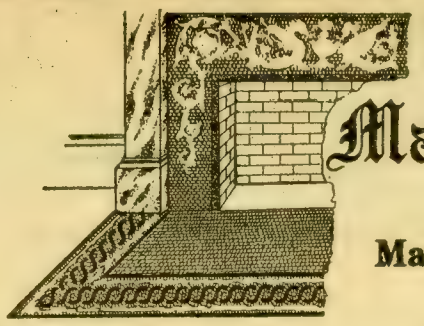
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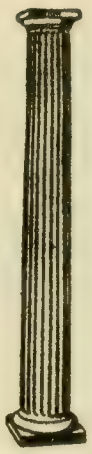
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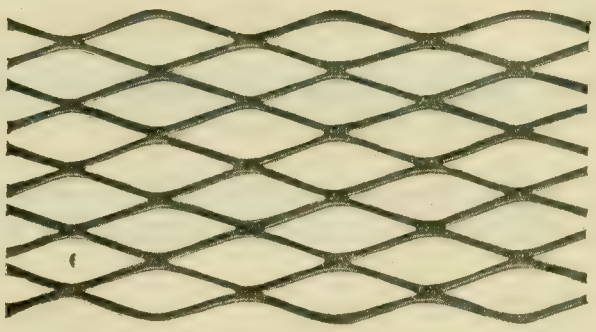
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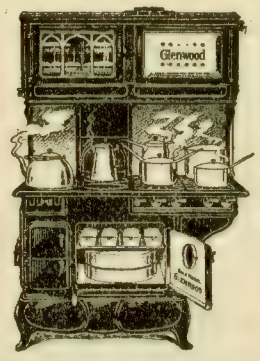
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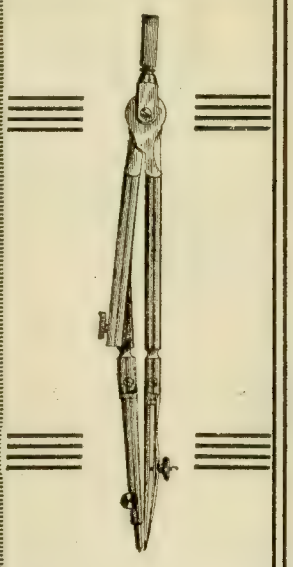
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October 11, 1922

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As The Editor Sees It

METHODS OF FINANCING THE BUILDING OF HOMES

Different Sources of Obtaining Building Capital Discussed, Showing that the Building and Loan Association is Vital to the Building Industry

BY K. V. HAYMAKER

Sec.-Treas. Detroit Home Builders' Savings and Loan Company

'Tis said that seven Grecian cities dispute the honor of claiming to be the birthplace of Homer. We have about three or four different cities claiming to be the home of the largest building and loan association in America, but the real claimant entitled to the honor has not been named. The biggest building and loan association in America today is the Railroad Men's Building & Loan Association of Indianapolis with between twenty-three and twenty-four million dollars of assets.

This whole conference is based on the fact which we all recognize and all acknowledge, that some efficient practical means must be obtained, must be arrived at, by which we can satisfy the hunger for homes that is felt in every community in America. You realtors all know that you don't get far in any sale of a home until you come to the question, how is this deal going to be financed?

Now, in almost every instance when a man starts out to buy a home, or to build a home, he lacks sufficient money to pay the entire cost. That gap between his available cash and the cost of the property must be bridged by some form of credit, and that credit almost invariably takes the form of a mortgage loan. Hence it becomes a vital necessity for you individually in your business to have an ample, abundant, reliable supply of money ready for investment in mortgage loans. In the last few years there has been a wonderful change in the methods of doing business in all lines. In none of them has there been a greater change than in mortgage loans.

We have had heretofore, four sources from which we secured funds with which to finance mortgages. First, private investments. Under the present income tax law with its heavy income tax and its mounting surcharges, the income from large estates and from men of great wealth, is no longer being invested in mortgage loans.

For example, some years ago, Hetty Green, said to be the wealthiest woman in America, died, and when her son inherited the estate and came to invoice it, he found almost every dollar of it invested in mortgage loans, about fifty million dollars, and when he came to get the returns, he found that after he had paid the income tax with its high surcharges, he was getting less than one per cent. on his money. He at once sold his entire holding of mortgage loans and invested in other securities. That is just one example. Thousands and scores of thousands of wealthy investors who have left the mortgage loan market are no longer buying mortgages.

Then the second are the insurance companies. What is true of the individual investor is largely true of the insurance companies. There are two or three or four perhaps prominent exceptions to that rule, the Metropolitan represented by the first speaker, Mr. Cody, is one which is doing a magnificient work in financing home building loans.

The Equitable of New York has another home purchase plan which is available in many instances. The Prudential of Newark, New Jersey, is another that is investing in mortgage loans in small amounts, in reasonable amounts that help the home builder, but taken in the aggregate the insurance companies of America are curtailing their mortgage investments. Some thirty years ago 58 per cent. of the assets of the life insurance companies of America was under the head of mortgage loans. Today it is less than thirty per cent. of their assets that is invested in that type of security.

The third item, the third source from which money for mortgages was obtained was the commercial banks and the savings banks and trust companies. Today you will find that there are many of them, perhaps a majority of these banks and trust companies, that are not interested in

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mortgage loans. Several causes lead to that. First, these commercial banks and saving banks and trust companies are financing the commercial and the industrial and the transportation business of the country and as this financial depression from which we have been suffering is passing away and as the industry of the country is going to develop and spread and increase, it will take all the resources of all those institutions to finance that business on the short time commercial paper which is so much more profitable than the frozen credits of the mortgage loans, that the banks are not investing in mortgage loans to the extent that they formerly did.

Another most important reason why you will never again see the banking interest of American invest in mortgages in the future as they have in the past grows out of the effect of the Federal Reserve System.

Now the advantage which a bank gets by affiliating with the Federal Reserve System is that it affords a place where they can rediscount their paper, but the paper which they can rediscount in the Federal Reserve Bank must be short time commercial paper. They can't rediscount long time paper. They can't rediscount mortgage paper at all, and for that reason all these institutions, if they affiliate with the Federal Reserve System, will curtail their mortgage investments in order to supply the mort profitable business of financing the short time commercial paper.

Then there is a fourth source from which mortgage loans have been obtained and that is the building and loan system. Unless your attention has been called to it you may not appreciate the magnitude of the building and loan association interests of America. Do you know that there are more building and loan associations in America than there are national banks? Do you know this further fact, that the actual cash paid in to the building and loan associations on their capital stock in America is almost double the combined capital stock of all the national banks in America? They have between two and one-half and three billion dollars of gilt-edged securities in their vaults.

A few months ago Mr. Fiske, the President of the Metropolitan Insurance Company, made a statement at a meeting of the Life Insurance Presidents' Association, as a boast, that in the year 1920 the combined life insurance companies of America made mortgage loans to the extent of $237,000,000. That is a tremendous pile of money. $151,000,000 of that was on farm loans and about $78,000,000 was on city property, and it is a matter of common knowledge that many of the loans made by these insurance companies on city property were on office and apartment buildings and structures of that character which did nothing toward improving the housing conditions in America.

It is a liberal estimate to say that the combined life insurance companies of America in that year did not loan to exceed $50,000,000 on homes in America. Compare that, with what the building and loan associations of America did in that same year when they loaned $550,000,000 in America. So many people have an idea that the building and loan association is a little two by four sort of an institution where children save their pennies, and where the working man saves the dollars and dimes that they can pinch out of their savings. Support and back up the building and loan association in your own home town. If you haven't got one, go out and organize one.

Some years ago I was employed by the National Association of Lumber Manufacturers to travel all over the country. I made a tour of some 15,000 miles from Alban, New York, to Great Falls, Montana, and from Minneapolis and Milwaukee to Dallas, Texas and New Orleans. My message to the lumber dealers of America was that they should get behind the building and loan associations, because every time a building and loan association made a loan in their home town it meant the sale of a bill of lumber, it meant business for them, and as a result of that tour, more than one hundred building organizations were organized in America by the lumber dealers, getting their neighbors around them and organizing an association to build up the community in which they were operating.

Last month they had a big meeting down in Chicago, the American Lumber Congress. A Kansas City man, Mr. James R. Moorehead, read a paper on this subject, and he prefaced his paper by telling this story:

He said, "After I got my paper ready for this convention, just as I was about ready to take the train, I called up my son in Lexington, Missouri, who is running a lumber yard.

"I said, 'Hello, son. What are you doing down there? Any business coming in?'

" 'Yes, nice business this morning.'

" 'What did you do?'

" 'I sold a bill of lumber for a house down here to John Smith. He is going to build over on Elm Street.'

" 'Well, did you get your money?'

" 'Sure, I got the money.'

" 'Where did Smith get the money?'

" 'Out of the Building and Loan.'"

Mr. Moorehead said that he sold that bill of lumber thirty years ago when he organized that building and loan association there, and the story his boy told him over the telephone that morning, has

(Continued on Page 659)

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Residence, Chestnut Hill, Philadelphia. Architect, Robert Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, Levis L. Mann, North American Building, Philadelphia. Stone, 2½ stories, 75x33 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile work, iron work. Architect taking bids October 14th.

Residence (alts.), Torresdale and Frankford avenues, Philadelphia. Architect, Henry D. Dagit Sons & Co., 34 South Seventeenth street, Philadelphia. Owners, St. Katherine's Roman Catholic Church, care of Rev. Joseph E. Coakley, 8504 Frankford avenue, Philadelphia. Changing basement of residence to chapel, general alterations. Plans in progress.

Residence (alts. and add.), 604 North Twenty-first street, Philadelphia. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, George W. Roberts, care of architect. Brick, 3 stories, 16x70 feet, garage and chauffeurs' quarters, addition, 16x40 feet, slag roof, reinforced concrete work, cement and pine floors, metal lath, vapor heating, tile work, plumbing, mill work, carpentry, sliding doors, general alterations. Plans in progress. Will be ready for bids in one week.

Residence (alts.), 1719 Walnut street, Philadelphia. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Dr. F. X. Dercum, on premises. Alterations to skylight and bay window. Plans in progress.

Apartment (20-family), Southeast Corner Forty-seventh and Chestnut streets, $80,000. Owner, Thomas J. Whelan, Southeast Corner Seventeenth and Summer streets. Brick, 4 stories, 38x25 feet, 50x14 feet, slag roof, hot water heat, electric lighting, oak and pine floors, tile work. Owner will build.

Apartment (10-family), South side Chestnut street, East of Forty-seventh, $40,000. Owner, Thomas J. Whelan, Southeast Corner Seventeenth and Summer streets. Brick, 4 stories, 19x25 feet, 25x14 feet, slag roof, hot water heat, electric light, tile work, oak and pine floors. Owner will build.

Factory Building, Wayne Junction, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Cocoanut Specialty Co., 1214 North Crese street, Philadelphia. Brick, steel and concrete, 4 to 6 stories, 80x180 feet. Preliminary plans in progress. Details undecided.

Residences (2), Sixty-fifth avenue and Broad street, Oak Lane, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, W. W. Moore, 1338 Sixty-fifth avenue, Oak Lane, Philadelphia. Brick, 2½ stories, slate roof, hardwood floors, electric lighting, tile and marble work. Plans in progress.

Ford Sales and Service Building, Fifteenth and Passyunk avenue, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, C. K. Johnson, care of architect. Brick, 2 stories, irregular. Plans in progress.

Stores (3), Apartments (9), Garages (16), 1533 West Girard avenue, Philadelphia. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, Mrs. W. L. D'Olier, care of architect. Add. to residence, 3 stories and basement, garages, 1 story, brick, slag roof, hardwood and cement floors, vapor heating, electric lighting, tile and marble work. Plans in progress. Architect will take bids in one week.

Residences (8), Merion road, North of City Line, Philadelphia. Architect, private plans. Owner, C. E. Taylor, Sixty-fifth and Haddington streets, Philadelphia. Stone, 3 stories, slate roof, hardwood floors, tile and marble work, electric lighting. Plans in progress.

Stores (3), Apartments (2) (alts. and add.), Moyamensing avenue and Iseminger street. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, name withheld. Brick and steel, 2 stories. Plans in progress. Too early for details.

Residences (alts.), Nineteenth and Waverly streets, Philadelphia. Architect, Willis A. Hall, P. O. Building, Upper Darby, Pa. Owner, John C. Herman, 1905 North Twelfth street, Philadelphia. Brick, cut stone, stone and steel, carpentry, mill work, composition floors, plastering, painting, glazing, terra cotta, iron work, tile and marble work. Architect taking bids due October 14th.

Residence, Mt. Airy, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, William J. Faux, Harrison Building, Philadelphia. Stone, 2½ stories, 35x80 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Architect taking bids due October 14th.

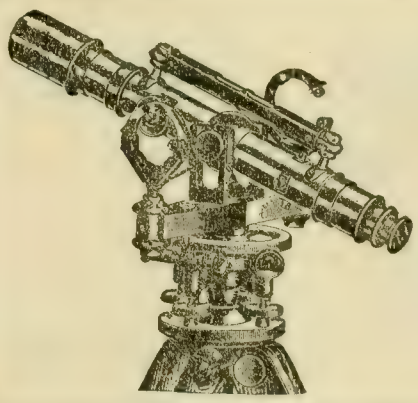
Residence (alts.) to Apartments, 4226 Parkside avenue. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Carpentry, mill work, brick work, cut stone, hollow metal skylights, plastering, painting, glazing, plumbing, bond. Architect taking bids due October 12th.

Dairy Building (add.), Sixteenth and Tasker streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Dolfinger Standard Dairies, on premises. Brick, reinforced concrete and cut stone, 2 stories, basement and balcony, 72x70 feet, asbestos asphalt roof, concrete and asphalt floors, metal lath, waterproofing, iron work, bond, rolling steel doors, demolition (electric work, cork insulation and elevators reserved). Architects taking bids due October 14th at noon.

Residence and Garage, Germantown, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, A. M. Burd, 1718 North Franklin street, Philadelphia. Stone and plaster, 2½ stories, 86x45 feet, and 1½ stories, 39x26 feet, slate roof, oak, pine and cement floors, electric lighting, metal lath, tile and marble work, bond, iron work (heat reserved). Architect taking revised bids due as soon as possible.

Bakery (add.), North side Glenwood avenue, East of Broad street, Philadelphia. Architect, A. G. Zimmerman, 85 Ninth avenue, New York City. Owners, National Biscuit Co., on premises. Reinforced concrete, brick, granite, cut stone, terra cotta and steel, 8 stories and basement, 256x150 feet, slag roof, mosaic, cement and maple floors, hollow tile, metal lath, roof ventilators, metal weather strip, waterproofing and dampproofing, iron stairs and work, bond, pressed steel doors, rolled steel skylights, hollow metal sash, marble and terrazzo work (heating, plumbing, electric work and elevators separate bids). Architect taking bids due November 1st.

Building (add.), 3430 Lancaster avenue, Philadelphia. Architect, James S. C. Fernald, 5533 Wyalusing avenue, Philadelphia.



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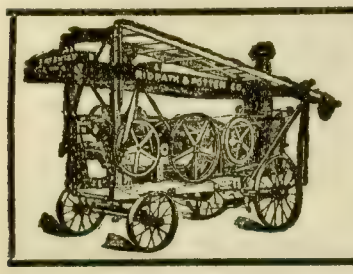
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Owners, General Paper Products Co., on premises. Brick and steel, 2 stories, 68x30 feet, slag roof, cement floors, rolled steel sash and skylights, plate glass, iron work (heating, plumbing, lighting reerved). Owner taking bids.

Residence, Chestnut Hill, Philadelphia. Architects, Willing, Sims & Talbutt, 1627 Sansom street, Philadelphia. Owner, Richard T. Nalle, Chestnut Hill, Philadelphia. Architects takin bids due October 21st.

Residences (5), Northwest Corner Thirty-sixth and Aspen streets, Philadelphia. Architect, Mahlon H. Dickinson, 6151 Market street, Philadelphia. Owner, Fred J. Schaefer, 929 Chestnut street, Philadelphia. Brick and cut stone, 2 stories, 31x22 feet, slag roof, pine floors, hot water heat, electric light, tile work, iron work. Architect taking bids.

Residences (14), Twenty-first street and Stenton avenue, Wyncote and Lambert streets, $90,500. Architect, private plans. Owner, Frank J. Peter, 4962 North Warnock street, Philadelphia. Brick, 2 stories, 20x31 feet, 18x31 feet, 15x32 feet, 12x9 feet, 15x25 feet, 14x20 feet, hot water heat, electric lighting, tile work. Owner will build.

Store and Apartment (1), Stores and Residences (3), Fifth street and Roosevelt Boulevard, **Residence and Store (1) and Residences and Garages (3)**, Roosevelt Boulevard and Lawrence street, $49,000. Architect, private plans. Owner, Nathan Litman, 1597 North Fifty-second street, Philadelphia. Brick, 3 stories, 12x10 feet, 16x64 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (32), (20) 5843-83 North Marshall street, and (12) 5825-47 North Sixth street, Philadelphia, $130,000. Architect, private plans. Owner, Walter S. Bauer, 5802 North Fifth street, Philadelphia. Brick, 2 stories, 15x27 feet, 10x10 feet, slag roof, hot water heat, electric light. Owner will build.

Storage Building, 1832 South Eleventh street, Philadelphia, $20,000. Architect, private plans. Owner, Benjamin Schwartz, 1832 South Eleventh street, Philadelphia. Brick, 3 stories, 34x16 feet, 14x27 feet, slag roof, electric work, steel sash, cement floors. Owner will build.

Shop, East side Earl street, South of Girard avenue, $2,000. Architect, private plans. Owners, Edward J. Bailey & Son, 1115 East Montgomery avenue. Iron, 1 story, 30x72 feet, cement floors. Owner will build.

Residences (12), Tabor road, East of Eleventh street, $51,200. Architect, private plans. Owner, Raymond G. Frick, 2960 North Judson street, Philadelphia. Brick, 2 stories, 15x28 feet, 12x9 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

Residences (21), A, Wyoming, Luray and Foulkrod streets, $124,500. Architect, private plans. Owner, Alfred C. Leihler, 4806 Castor road, Philadelphia. Brick, 2 stories, 20x35 feet, 20x55 feet and 16x42 feet, slag roof, electric lighting. Owner will build.

Garages (11), 7124-26-28 and 7119-29-37-45 Lincoln Drive, $1,500 each. Architect, private plans. Owner, John H. McClatchey, Land Title Building, Philadelphia. Brick, 1 story, 19½x19½ feet, slag roof, cement floors. Owner will build.

Stores and Residences (alts. and add.), 3131-33-3149-51 North Twenty-second street, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Henry J. Lachenmayer, care of architect. Brick, 2 story add., 16x18 feet, slag roof, cement and pine floors, stone work, hot water heat, electric light, tile work, verdi antique or artificial marble, mill work, plate glass, iron stairs, plumbing. Owner will build. Architect is taking sub-bids.

Apartments (alts. and add.), 3620-22 North Broad street, $15,000. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Marquetand & Reinert, care of architect. Brick and steel, 1 story, 18x34 feet, slag roof, oak floors, metal lath, iron work, bond, electric light, tile work (heating reserved). Owners will build. Architect is taking sub-bids.

Residences (22), Cobb's Creek Boulevard, West of Fifty-eighth street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Hyman Barkan, Fifty-sixth and Greenway avenue, Philadelphia. Brick and stucco, 2 stories, 16x69 feet, slate and slag roof, tin roof, hardwood floors, hot water heating, electric lighting, tile and marble work, metal lath, cement work. Owner ready for sub-bids.

Garage, 6334 Sherwood road, Philadelphia, $4,000. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, George J. De Armond, Franklin Trust Building, Philadelphia. Brick, 2 stories, 23x25 feet, slag roof, cement floors. Architects subletting.

Branch Sewers, Philadelphia. Low bidders on branch sewers opened October 3rd. Bigler street, Moyamensing avenue to Broad street, $16,983.05; Moyamensing avenue, Eighteenth to Fifteenth, $9,540.25; Pollock street, Moyamensing avenue to Broad street, $22,430.40; the O'Neill Co., 237 East Mermaid Lane, Philadelphia. Colona street, Moyer to Thompson streets, $719.20; Penn street, Henry to Vaux street, $6,793.05; Twenty-first street, Sixty-fifth avenue to Sixty-

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sixh avenue, $16,812.85; A. J. Ellis, 5724 North Marshall street, Philadelphia. Colorado street, from Pennsylvania Railroad to Moyamensing avenue, $4,276.50; Smedley street, Moyamensing avenue to Pollock street, $6,014.00; Sixteenth street, Moyamensing avenue to Pennsylvania Railroad, $7,891.50; Seventeenth street, Bigler street to Moyamensing avenue, $1,765.70; A. Joffola, 1203 Tree street, Philadelphia. Dickens avenue, Sixty-fourth street to Gross street, $1,470.54; Holbrook avenue, Elmwood avenue to Buist avenue, $2,430.35; Joffola & Zennetti, 1203 Tree street, Philadelphia. Fifteenth street, from Pennsylvania Railroad to Moyamensing avenue, $10,956.25; P. Pensetti, Philadelphia. Mentor street, C to D streets, $2,131.00; Ridley street, Limekiln pike to Twentieth street, $1,829.20; A. Leva, 3851 North Tenth street, Philadelphia. Sydenham street, Moyamensing avenue to Pollock street, $9,725.30; C. Ricciardo, 1226 South Juniper street, Philadelphia. Sixteenth street, from Sixty-eighth avenue to Haines sreet, $3,129.50; C. Venscutti, Philadelphia. Sixty-seventh avenue, from Fifteenth to Eighteenth street, $11,349.75; Turner street, Fifty-ninth to Sixtieth street, $3,444.75; Twenty-first street, Throop's lane to Champlost street, $15,069.70; Girard Underpinning Co., 2930 Diamond street, Philadelphia.

Hoist, repair shop, 1117 Reed street, Philadelphia. Owners, Department of Public Safety, J. T. Cortelyou, 215 City Hall, Philadelphia. Furnishing and installing 1-ton D. C. electric cable hoist. Specifications may be secured from Fire Headquarters, 1328 Race street, Philadelphia. Owners taking bids due October 16th at noon.

Residences (3), (2) Fifty-second and Dauphin streets, and (1) Fifty-first and Dakota streets, $31,000. Architect, private plans. Owner, David L. Sloan, 2061 North Sixty-second street, Philadelphia. Stone and brick, 3 stories, (2) 17x16 feet, 26x32 feet and (1) 25x42 feet, 6x6 feet, hot water heating, electric lighting, hardwood floors, tile work. Owner will build.

Residences (35), Eighth and Fisher's avenue, Philadelphia, $176,000. Architect, private plans. Owner, John J. Foley, 301 Somerville avenue, Philadelphia. Brick, 2 stories, 15x40 feet and 15x30 feet, 11x9 feet, slag roof, electric lighting. Owner will build.

Residences (2), North side Godfrey, West of G street, $6,000 each. Architect, private plans. Owner, Martin Smith, 2704 North Second street, Philadelphia. Brick, 3 stories, 16x52 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residence, 6521 North Broad street, Philadelphia, $10,000. Architect, E. A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, George H. Chapin, 5031 Germantown avenue, Philadelphia. Stone, 2½ stories, 20x35 feet, slate roof, electric lighting. Owner will build.

Residence, North side Kerper street, East of H street, $4,000. Architect, private plans. Owner, Kurt Weikert, 3943 North Franklin street, Philadelphia. Hollow tile and stucco, 2 stories, 26x42 feet, shingle roof, hot water heat, electric light. Owner will build.

Residence, 2725 East Allegheny avenue, Philadelphia, $3,000. Architect, private plans. Owner, John J. Golden, 2729 East Allegheny avenue, Philadelphia. Brick, 2 stories, 16x16 feet, 10x19 feet, slag roof, pine floors. Owner will build.

Grading and Asphalt Paving, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Owners taking bids due October 10th at noon.

Grading and Miscellaneous Work—Alcard street and 12 others in that vicinity; Haines street, Chew to Anderson street; Mascher street, Clearfield to Trusoulum street; Rising Sun avenue, Wyoming avenue to Courtland street; Twenty-first street, Sixty-fifth to Sixty-sixth avenues.

Asphalt Paving—Anderson street, from Chelten avenue to Haines street; Clearfield street, from Hancock to Howard street; Diamond street, from Fifty-second to Fifty-fourth street; Etting street, from Allegheny avenue to Willard street; Sansom street, from Fiftieh to Fifty-first street; Lancaster avenue, from Fifty-second to Fifty-sixth street.

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H. B. Weldon, architect, has moved his offices to 1627 Sansom Street, Philadelphia.

P. J. Hallahan, builder, has moved his offices to 2315 Walnut Street, Philadelphia.

William C. Hale, builder, has opened new offices at 1516 Summer Street, Philadelphia.

Turnbull & Cornell, builders, have opened new offices at 15 South Twenty-first Street, Philadelphia.

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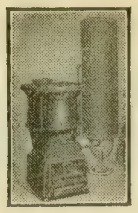
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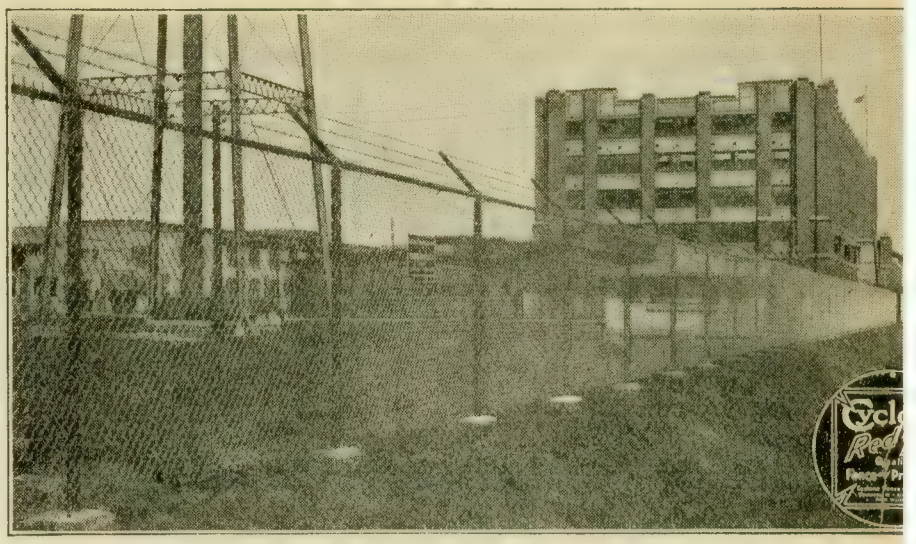
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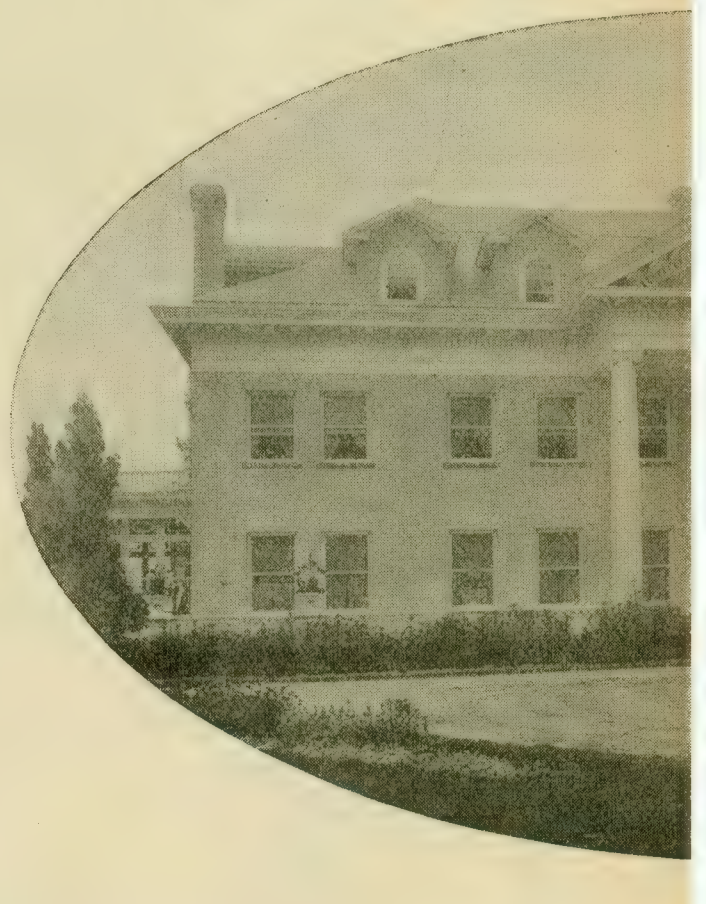
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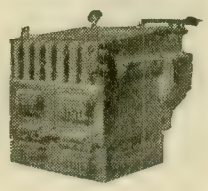
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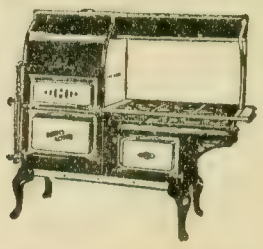
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, 1732-36 North Eleventh street, Philadelphia, $18,500. Architect, private plans. Owner, P. A. Murray, on premises. Brick and steel, 1 story, 54x100 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Store, North side Lansdowne avenue, East of Sixty-third street, $8,700. Owner, F. P. Bell, 4826 Woodland avenue, Philadelphia. Brick, 1 story, 36x41 feet, slag roof, electric light, pine floors. Contract awarded to J. D. Fisher, 5426 Thompson street.

Bottling Plant, Southwest Corner Germantown avenue and Dennie street, $11,500. Architect, private plans. Owner, K. Kida, on premises. Brick, 2 stories, 30x36 feet, slag roof, electric lighting, addition to old building, 3 stories, 18x34 feet. Contract awarded to Frank V. Radomski, 1726 Juniata street.

Residence, Southeast Corner Princeton and Shelbourne streets, $6,500. Architect, private plans. Owner, Frederick Yetter, 7102 Rising Sun avenue, Philadelphia. Stone, 2 stories, 30x40 feet, slag roof, hot air heat, electric light, oak and pine floors. Contract awarded to Lewis D. High, 1024 Robbins avenue.

Residence (alts.), Northwest Corner Twenty-fifth and Jefferson streets, $2,500. Architect, private plans. Owner, David S. Shestack, 322 Dickinson street, Philadelphia. General alterations. Contract awarded to L. M. Shestack, 826 Arch street, Philadelphia.

Store and Office Building, Southwest Corner Fifteenth and Spruce streets, $32,000. Architects, Hoffman-Henon Co., Inc., Finance Building, Philadelphia. Owners, Mastbaum Brothers & Fleischer, Fifteenth and Chestnut streets. Brick, terra cotta and steel, 2 stories, 110x30 feet, slag roof, pine floors, steam heat, electric light, metal lath, hollow metal skylights, iron work. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Sales and Service Building, 1618 North Broad street, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, cut stone and steel, 2 stories, 200x21 feet, slag roof, maple and cement floors, metal lath, demolition, electric lighting, tile work, hollow metal skylights, kalamein doors, bond, metal bulks, plate glass, iron work. Contract awarded to John Schnabel, Inc., Denckla Building.

Office Building and Bank, 1510-1512 Chestnut street, Philadelphia. Architect, Arthur H. Brockie, 1713 Sansom street, Philadelphia. Owners, Corn Exchange, Second and Chestnut streets, Philadelphia. Brick, cut stone and steel, 6 stories and basement, and sub-basement, 138x39 feet, slag roof, cement and maple floors, metal lath, elevators, iron work, bond, fire and kalamein doors, rolled steel skylights, hollow metal sash, tile and marble work, demolition. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia, but not yet signed.

Warehouse, Offices, Show Room and Store, 9100-912-914 Cherry street, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, George B. Clopp, 3717 Filbert street, Philadelphia. Lessees, Western Electric Co., Eleventh and York streets, Philadelphia. Reinforced concrete, steel and brick, 5 stories and basement, 60x148 feet, slag roof, reinforced concrete floors, freight elevator, passenger elevator, demolition, steam heating, electric lighting, sprinkler system, plumbing, rolled steel sash. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Auto Accessories Office and Warehouse, Sixteenth and Fairmount avenue, Philadelphia, $40,000. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owners, Gaul, Derr & Shearer, 212 North Broad street, Philadelphia. Brick and steel, 2 stories and basement, 107x56 feet, slag roof, cement and plank floors, freight elevator, flush bulks, plate glass, steam heating, electric lighting. Contract awarded to E. H. Keefer & Son, 1013 Rodman street, Philadelphia.

Bank Building, Broad and Erie avenue, Philadelphia. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owners, Northern Central Trust Co. of Philadelphia, on premises. Brick, limestone, castone, terra cotta, cut stone and steel, 1 story, basement, main floor and mezzanine, 106x51 feet, asbestos roof, cement and oak floors, metal ceilings, waterproofing, plate glass, iron work and stairs, bond, rolled steel sash, tile and marble work, metal lath. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Residence and Garage, Fifty-second and Woodbine avenue, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Joseph A. Richman, Thirteenth and Chestnut streets, Philadelphia. Brick and stucco, 2½ stories, 30x40 feet and 20x24 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work, cement work. Contract awarded to Charles T. Clark ,3635 Germantown avenue.

Building (alts.), 9 North Fifth street, Philadelphia. Architect, private plans. Owners, Reading Hardware Co., 816 Arch street, Philadelphia. Brick store front, heating plant, plumbing, electric work, elevators, rolled steel skylights, metal ceilings, rear fire tower, plastering. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

Garage, Walnut lane and Magnolia street, Philadelphia. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, Harry O. Brey, 6308 Ross street, Philadelphia. Brick, 1 story, 75x200 feet, slag roof, cement floors, steam heating, electric lighting, roof ventilators, rolled steel skylights. Contract awarded to Perry T. McCluskey, 1604 West Venango street, Philadelphia.

Sales and Service Building, Southeast Corner Broad and Thompson streets, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Nash Motor Co., 901 North Broad street, Philadelphia. Brick, stone, steel and concrete, 5 stories and basement, 75x160 feet, steam heating, electric lighting, metal bulks, plate glass, concrete floors, tile work. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Residence, Overbrook, Philadelphia. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, Edmonia C. Bradley, care of architect. Brick, 2½ stories, 100x38 feet, wing 26x18 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile work, metal lath, iron work. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Show Room (add.), 2247 North Broad street, Philadelphia. Architect, private plans. Owner, M. A. Weiss, 1526 North Broad street, Philadelphia. Brick and steel, 1 story, 18x53 feet, second story add., 15x18 feet, slag roof, hardwood floors, gas steam heating (electric lighting reserved), hollow metal skylights, metal ceilings, flush bulks. Contract awarded to Ayers Concrete Products Co., Heed Building, Philadelphia.

Factory (add.), Redfield street and Baltimore avenue, Philadelphia, $14,000. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, West Philadelphia Cut Glass Co. (Thomas J. Slattery), on premises. Brick and steel, 1 story, 58x96 feet, slag roof, pine

floors, steam heating, electric lighting, rolled steel sash. Contract awarded to Farrell Roth Const. Co., 122 Diamond street, Philadelphia.

Store and Apartments and (2) Garages, Fifty-second and Market streets, $28,000. Architect, H. Childs Hodgens, 130 South Fifteenth street, Philadelphia. Owners, Greater Philadelphia Realty Co., Belmont Theatre, Philadelphia. Brick, terra cotta, granite and rubble stone, 2 stories, 85x39 feet, and 1 story, 21x30 feet, slag roof, pine and cement and oak floors, metal lath, tile and marble work, electric lighting, hot water heating. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Garage, Third and Louden streets, Philadelphia. Architect, Paul L. Boyd, 6943 Limekiln pike, Philadelphia. Owner, name withheld. Brick, 1 story, 20x19 feet, slag roof, cement floors, electric lighting. Contract awarded to George A. Boyd, 5701 North Sixth street, who is taking sub-bids.

Residences and Stores (3) (alts. and add.), 5338-40-42 Market street, Philadelphia. Architect, J. Wilmer Thompson, 703 South Sixtieth street, Philadelphia. Owner, James E. Wilson, 310 Lincoln Building, Philadelphia. Brick, cut stone, steel, 2 stories, 48x18 feet, slag roof, mineral and pine floors, metal lath, demolition, electric light, tile and marble work, fire doors, bond, iron work (heating reserved). Contract awarded to Clark Brothers, 1504 South Twenty-eighth street, Philadelphia.

Store and Residence (alts.), Northeast Corner Eighteenth and Mifflin streets. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, D. Falcone, 1510 South Thirteenth street, Philadelphia. Hot water heating, electric lighting, tile work, marble veneer, slag roof, composition floors, plate glass, flush bulks, carpentry, mill work. Contract awarded to Nicholas Ricci, 1824 South Sixteenth street.

Store and Residence (alts. and add.), Southwest Corner Alder and Federal streets. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, P. Bisanti, care of architect. Brick, 3 stories add., 16x20 feet, slag roof, pine floors, hot water heat, electric light, tile and marble work, galvanized iron, plate glass, painting, glazing, mill work, carpentry. Contract awarded to Vincent Mangianele, 1646 South Sixteenth street.

Ice House (alts.), Trenton avenue and Huntingdon street, $10,000. Architect, private plans. Owners, Kensington Hygeia Ice

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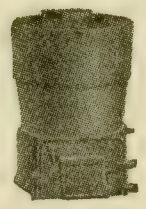
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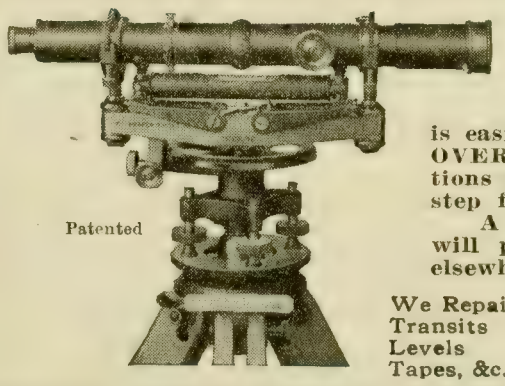
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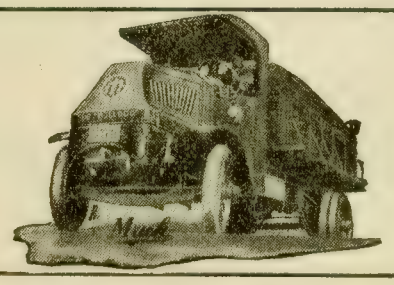
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Co., on premises. Reinforced concrete floors, carpentry, mill work, painting, glazing. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Store Building (alts. and add.), 1122 Walnut street, Philadelphia, $8,000. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Manuel G. Weinberg, 301 Finance Building, Philadelphia. Brick, 2 stories, 8x16 feet, slag roof, steam heating, electric lighting, plate glass, interior alterations. Contract awarded to Jake Neuborn, 831 North Sixth street, Philadelphia.

Factory (alts.), Marvine street and Montgomery avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers, Third and Spruce streets, Philadelphia. Alterations to locker, toilet and recreation rooms, slag roof, pine floors, carpentry, mill work, painting, glazing, hollow metal skylights (heating and lighting reserved). Contract awarded to Max Siegel, 1837 North Franklin street, Philadelphia.

Residences (5), North side Wakeling, East of Cottage, $20,750. Architect, private plans. Owner, Harry Stocks, Wakeling and Cottage streets, Philadelphia. Brick, 2 stories, 18x30 feet, hot water heat, electric light. Contract awarded to Anton Ahlers, 5913 Ditman street, Philadelphia.

Residence and Store, 209 South street, Philadelphia, $6,500. Architect, private plans. Owner, Bessie Rabinovitch, 1631 North Thirty-second street, Philadelphia. Brick, second and third story adds., 9x9 feet, slag roof, electric lighting. Contract awarded to S. Lazarus, 4914 Parkside avenue.

Residence (alts. and add.), 308 West Carpenter street, $6,500. Architect, private plans. Owner, Burton E. Kipp, 2235 North Thirteenth street, Philadelphia. Brick, 1 story, 10x10 feet, and 1 story, 10x9 feet, slag roof, oak floors, electric lighting. Contract awarded to H. C. La Rue, 603 Spring avenue, Jenkintown, Philadelphia.

Residence (alts. and add.), 8605 Seminole avenue, $20,000. Architect, private plans. Owners, M. J. Hopkins Estate, on premises. Stone, 2 stories, 17x32 feet and 7x20 feet, slate roof, hardwood floors, hot water heating, electric lighting. Contract awarded to Charles J. W. Platt, 1015 Arch street.

Residence, South side Rising Sun avenue, East of Afton street, $5,800. Architect, private plans. Owner, Ludwig Shimpp, 2342 South Boston avenue, Philadelphia. Brick and frame, 2 stories, 25x30 feet, slag roof, hot water heat. Contract awarded to Jacob Hansen, Afton and Veree road, Philadelphia.

Residence (add.), 4953 Catharine street, Philadelphia, $3,000. Architect, private plans. Owner, David H. Bowen, on premises. Brick, 2 stories, 11x9 feet, 4½x19 feet, slag roof, pine floors. Contract awarded to Walter Scott, 4951 Catharine street, Philadelphia.

Garage, Southwest Corner Harrison and Darrah streets, Philadelphia, $2,500. Architect, private plans. Owner, Dr. John J. Lynch, 1644 Harrison street, Philadelphia. Brick, 1 story, 17x43 feet, slag roof, cement floors. Contract awarded to Tony Olivieri, 1578 Adams avenue, Philadelphia.

Store and Storage Building (add.), 526 North Fourth street, $2,400. Architect, private plans. Owner, S. Uram, 441 South street, Philadelphia. Brick, 1 story, 14x16 feet, slag roof, pine floors, electric light. Contract awarded to I. Negir, 2440 South Reese street, Philadelphia.

Factory, South side Paschall avenue, West of Fifty-fourth street, $20,000. Architect, private plans. Owners, Murlin Mfg. Co., 1829 Wylie street, Philadelphia. Brick, 1 story, 40x175 feet, slag roof, yellow pine floors. Contract awarded to M. L. Conneen & Son, 1813 South Fifty-fourth street.

Apartments (2) (add.), 3948-50 Pine street, Philadelphia, $17,500. Architect, private plans. Owner, G. W. Wilte, 4903 Pine street, Philadelphia. Brick, steel, 3 stories, 17½x20 feet, slag roof, electric work. Contract awarded to Frank G. Stewart, 1619 Sansom street.

Residence, Wayne avenue and Arbutus street, Philadelphia, $12,000. Architect, private plans. Owner, Mr. Stromble, Wayne and Lincoln Drive, Philadelphia. Hollow tile and stucco, 3 stories, 27x36 feet, 16x13 feet, slate roof, electric lighting, tile work, oak and pine floors. Contract awarded to Merion Const. Co., 2313 Walnut street.

Residence, Cinnaminson and Lawnton avenues, $9,000. Architect, private plans. Owner, Mrs. Thomas Brown, 334 Fountain street, Philadelphia. Frame, 2 stories, 36x34 feet, shingle roof, electric lighting. Contract awarded to Harry W. Darrah, 1333 West Thompson street.

Building (add.), Allegheny avenue, North of Watts street, $8,000. Architect, private plans. Owners, Brehme & Stehle, Trenton and Allegheny avenues, Philadelphia. Brick, 1 story, 44x60 feet, slag roof, electric work. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street.

Warehouse, Frankford avenue, South of Torresdale avenue, $8,000. Architect, private plans. Owners, Philadelphia Dyeing & Finishing Co., on premises. Iron, 1 story, 63x136 feet, corrugated iron roof, cement floors. Contract awarded to E. T. Bender, 6014 Torresdale avenue.

Residence, 141 Shurs Lane, Philadelphia, $5,800. Architect, private plans. Owner, Daniel Carroll, 4119 Dexter street, Philadelphia. Brick, 2 stories, 16x41 feet, slag roof, electric lighting. Contract awarded to John F. Hillsley, 217 DuPont street.

Residence and Store (alts.), 1338 West Cambria street, $2,200. Architect, private plans. Owner, Morris Spielman, on premises. General alterations. Contract awarded to P. Haibach Cont. Co., 1261 North Twenty-sixth street.

Residence (alts. and add.), South side Washington lane, East of Wayne avenue, $5,000. Architect, private plans. Owner, E. H. Hedley, 900 Oak Lane, Philadelphia. Brick, 1 story add., 20x24 feet, slag roof, electric lighting, general alterations. Contract awarde dto Acme Const. Co., 2025 North Sixty-second street.

Store, Northwest Corner Eleventh and Federal streets, Philadelphia, $4,000. Architect, private plans. Owner, Andrew Traviscio, 1028 South Ninth street, Philadelphia. Brick, 2 stories, 8x18 feet, slag roof, pine floors. Contract awarded to Silvio Taska, 831 Ernest street, Philadelphia.

Residence and Store (alts. and add.), 1728 West Susquehanna avenue, $2,500. Architect, private plans. Owner, Louis Ranitz, on premises. Brick, 1 story, 3x10 feet, 12x12 feet, slag roof, pine floors. Contract awarded to A. Barsky, 1313 South Second street, Philadelphia.

Building, East side Main street, South of Walnut lane, $4,000. Architect, private plans. Owners, G. J. Littlewood & Son, on premises. Brick, 1 story, 23x38 feet, slag roof, electric lighting. Contract awarded to Elmer L. Cuthbertson, 334 Roxborough avenue.

Store and Residence (alts.), Northwest Corner Sixteenth and Seybert streets. Owner, George W. Murgatroyd, on premises. General alterations. Contract awarded to A. Raymond Raff, 1635 West Thompson street.

Residence and Garage, Thirty-second and Midvale avenue, $13,500. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, William J. Benham, East Park Drive and Calumet street, Philadelphia. Brick, 3 stories, 50x25 feet, garage, 1 story, 23x23 feet, slag roof, hot water heating, electric lighting, tile work. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

Garages (2), 945-47 North Randolph street, Philadelphia, $12,000. Architect, private plans. Owner, George Hofkin, 922 North Fifth street, Philadelphia. Brick, 2 stories, 39x60 feet, slag roof, cement floors, electric work. Contract awarded to Morris Yachnitz, 1202 North Seventh street, Philadelphia.

Residence and Garage, Northeast Corner Thirty-second and Penn streets, Philadelphia, $13,500. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, David J. Boon, 4265 Ridge avenue, Philadelphia. Brick, 3 stories, 50x25 feet, garage, 1 story, 23x23 feet, slag roof, hot water heat, electric light, tile work, oak, pine and cement floors. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

Store, 1602 South Tenth street, Philadelphia, $2,000. Owner, Julia Mamorella, 1015 South Ninth street, Philadelphia. Brick, 1 story, 15x32 feet, slag roof, yellow pine floors. Contract awarded to Tony Cynnano, 937 Federal street, Philadelphia.

Residence, Southwest Corner Faunce and Verree road, Philadelphia, $6,000. Architect, private plans. Owner, Joseph Foster, 2726 Jasper street, Philadelphia. Brick, 24½x30½ feet, slag roof, hot water heat, electric light. Contract awarded to Harvey L. Miller, 7319 Palmetto street.

Factory (add.), 406 Leverington avenue, Philadelphia, $4,000. Architect, private plans. Owner, J. Morris Brown, on premises. Brick, second story add., 20x64 feet, slag roof, electric light. Contract awarded to Brown Const. Co., 105 Levering streeet.

Store and Storage Building, 4450 Frankford avenue, $20,000. Architect, private plans. Owners, Loux & Son, on premises. Brick, 2 stories, 24x150 feet, slag roof, steam heat, electric lighting. Contract awarded to S. Yellin, 3125 Montgomery avenue, Philadelphia.

Shop, North side Filbert street, West of Forty-second street, Philadelphia, $3,870. Architect, private plans. Owner, Charles P. King, 4206 Powelton avenue, Philadelphia. Brick, 3 stories, 22x48 feet, 4x38 feet, slag roof, electric light. Contract awarded to E. C. Debeny, 4241 Powelton avenue, Philadelphia.

Garage (add.), 4038 Girard avenue, Philadelphia, $3,500. Architect, private plans. Owners, Arbach Company, on premises. Brick, 1 story, 38x50 feet, slag roof, cement floors. Contract awarded to Max Lipkin ,3973 Wyalusing avenue.

Residence and Store (add.), Northeast Corner Eleventh and York streets, $3,000. Architect, private plans. Owner, Ida Kerbaugh, on premises. Brick, second story add., 18x21 feet, slag roof, pine floors. Contract awarded to George Collins, Thirty-first and Cumberland streets.

Garage, 3530 North Fifteenth street, Philadelphia, $2,000. Architect, private plans. Owner, Valentine Puder, on premises. Brick, 2 stories, 25x16 feet, slag roof, cement floors. Contract awarded to W. J. Ervin, 3532 North Fifteenth street, Philadelphia.

Residence (alts. and add.), Northeast Corner Twenty-third and Rittenhouse streets, $2,500. Owner, Isadore Milgram, Commonwealth Building, Philadelphia. Brick, 1 story, 8x16 feet add., general alterations. Contract awarded to Harry Feldman, 2914 West Gordon street, Philadelphia.

Store and Storage Building (add.), Northwest Corner Fifty-fifth and Race streets, $3,500. Architect, private plans. Owner, Morris Brownstein, 5501 Race street, Philadelphia. Brick, 2 stories, 16x8 feet, slag roof, cement floors, electric light. Contract awarded

to Lester M. Shestack, 826 Arch street, Philadelphia.

Store and Apartment (add. and alts.), 4501 Springfield avenue, $3,000. Architect, private plans. Owners, Charles Lafferty Estate, 1312 Washington avenue, Philadelphia. Brick, 1 story, 15x18 feet, slag roof, electric lighting. Contract awarded to F. T. Mercer Co., 1916 Brandywine street.

Garage, 2417 North Fifty-sixth street, Philadelphia, $2,500. Architect, private plans. Owner, Mrs. J. M. McCurdy, on premises. Brick, 2 stories, 19x24 feet, slag roof, cement floors. Contract awarded to P. T. McCluskey, 1604 Vest Venango street.

Apartment (alts.), 231 South Forty-fifth street, Philadelphia, $15,000. Architect, private plans. Owner, W. A. Leiser, Merion, Pa. Carpentry, mill work, painting, glazing, brick work, plastering. Contract awarded to Curtis Grindrod Co., 10 South Eighteenth street.

Residence, North side Cliveden street, West of Wissahickon avenue, $13,000. Architect, private plans. Owner, Benjamin F. Brusstar, 137 Springfield avenue, Chestnut Hill. Brick, 3 stories, 36x28 feet, 22½x41 feet, slag roof, hot water heat, electric light, oak and pine floors, tile work. Contract awarded to Charles T. Clark, 3635 Germantown avenue.

Residence and Store (add. and alts.), 5438 Woodland avenue, $6,500. Architect, private plans. Owner, George B. Keller, on premises. Brick, 3 stories, 16x14 feet, slag roof, oak and pine floors. Contract awarded to Thomas M. Cockerville, 2232 Jamestown street.

PENNSYLVANIA Construction News

Residence, Sunbury, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Dr. E. E. Drumheller, Sunbury, Pa. Hollow tile, face brick, quarry tile and concrete, 2½ stories, 40x40 feet, slate roof ,hardwood floors, vapor heating, electric lighting, tile work. Plans in progress.

Residence, Cable, near Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, A. C. Hack, Cable, Pa. Quarry tile and frame, 2 stories, 30x40 feet, slate roof, hardwood floors, vapor heating, electric lighting, tile work. Plans in progress.

Residence, Swarthmore, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Hugh F. Denworth, care of architect. Stone, 2½ stories, 26x34 feet, shingle roof, oak and pine floors, warm air heating, electric lighting, tile work. Architects taking bids due October 18th at noon.

Residence, Swarthmore, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, William H. Thatcher, Lafayette Building, Philadelphia. Stone, 2½ stories, 26x34 feet, shingle roof, oak and pine floors, warm air heating, electric lighting, tile work. Architects taking bids due October 18th at noon.

Tyson Hotel (alts. and add.), Old York road, Ogontz, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Alterations into stores, apartments and banking room, 3 stories, slate roof, hardwood floors, steam heating, electric lighting, tile work, general renovation. Plans in progress.

Store and Apartments (6), Abington, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick and stone, 3 stories, 20x65 feet, slate roof, slag roof, hardwood floors, metal lath, plate glass, metal bulks, hot water heating, electric lighting, tile and marble work. Plans in progress.

Church, East Stroudsburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Grace Lutheran Church, Rev. Ristler, East Stroudsburg, Pa. Stone, 1 story and basement. Too early for details.

Store, Reading, Pa. Architect, Fred Muhlenberg, 24 North Sixth street, Reading, Pa. Owner, Lewis T. Ganster, 200 North Fifth street, Reading, Pa. Concrete and brick, 2 stories, 30x30 feet, asphalt roof, hardwood floors, steam heat, electric light. Plans in progress.

Church and Sunday School, Bethel, Chester County, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Bethel Methodist Episcopal Church, William A. Mowere, chairman, Bridge and Penn streets, Spring City, Pa. Stone, 1 story and basement, demolition, slate roof, oak floors, steam heat, electric light, bond. Plans in progress.

Residence and Garage, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Norman I. Gruber, 334 Yost avenue, Spring City, Pa. Tapestry brick and stone, 2 stories, 38x30 feet, tile roof, oak and tile floors, pipeless heating, electric light (heating, plumbing and lighting reserved), terra cotta work. Plans in progress.

Bungalow, Ridley Park, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Eric Hawthewaite, 1302 North Sixty-first street, Philadelphia. Frame and stucco, 1½ stories, 25x30 feet, shingle roof, hardwood floors, hot water heating, electric lighting. Plans in progress.

Residence, Sutton road, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, name withheld. Building block and stucco, 2½ stories, 27x38 feet, shingle roof, hardwood floors, vapor heating, electric lighting, tile work. Plans in progress.

Residence, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Walter Bock, care of architect. Frame and stucco, 3 stories, 25x34 feet, shingle roof, hardwood and pine floors, hot water heating, electric lighting. Plans in progress. Architect will be ready for bids in one week.

Residence, Wyomissing, Pa. Architects, High and Huber, 230 North Sixth street, Reading, Pa. Owner, Charles H. Fisher, Second and Chestnut streets, Reading, Pa. Stone, 2 stories, 33x33 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress. Owner will sub-let.

Twin Residences (3), Hatboro, Pa. Architect, private plans. Owners, Hatboro Laundry, Hatboro, Pa. Frame and stucco, 2 stories, 20x27 feet, slate roof, pine floors, pipeless heater, electric lighting. Owners taking bids due as soon as possible.

Bank (alts. and add.), Morrisville, Pa. Architects, T. B. Stockham and Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Morrisville Trust Co., care of architects. Stone, 1 story, 20x40 feet, slate roof, tile floors, hollow tile, elevators, electric light (vault and bank fixtures reserevd). T. B. Stockham, Morrisville, Pa., will take bids.

Bank (alts. and add.), Hatboro, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Hatboro National Bank, Hatboro, Pa. Stone, 1 and 2 stories, 32x41 feet and 20x28 feet, tin roof, pine floors, demolition, hot water heat, electric lighting, tile and marble work, bond (lighting fixtures, vault doors and bank fixtures reserved). Architect taking bids due October 12th.

Residence, Bala, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Thomas J .Sinclair, Kingscourt Apartments, Philadelphia. Brick, stone and cut stone, 2½ stories, 92x36 feet, slate roof, oak, pine and reinforced concrete floors, metal lath, waterproofing, bond, tile and marble work, demolitioin, hot water heating, electric lighting. Architect taking bids due October 12th at noon.

Bank (alts. and add.), East Downingtown, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading. Owners, Downingtown National Bank, S. Downing, president. East Downingtown, Pa. Reinforced concrete, structural steel and marble, 2 stories, cut stone, cork, tile and linoleum floors, electric light, tile, marble and terrazzo work, hollow metal sash and skylights, bank fixtures, vault doors. Owner taking bids due October 14th at 5 P. M.

Factory, Mt. Etna, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Liebovitz & Sons, care of architect. Frame, 1 story, 27x40 feet, composition roof, pine floors, electric lighting. Architect taking bids due October 12th.

Store and Apartment, Seventh and Cherry streets, Reading, Pa. Architect, M. B. Deckant, 632 Washington street, Reading, Pa. Owner, J. B. Waidelich, American Drug Store, Allentown, Pa. Brick, hollow tile, 4 stories and basement, 97x32 feet, slag roof, hardwood floors, steam heat, electric light, tile work, terra cotta. Architect taking bids due October 16th.

School, Mt. Penn, Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owners, Mt. Penn School Board, W. Edgar Bates, secretary, Mt. Penn, Reading, Pa. Brick, 1 and 2 stories, 38x160 feet, Spanish tile roof, maple floors (heating, plumbing and electric work reserved), hollow tile, roof ventilators, waterproofing, dampproofing. Owners taking revised bids due October 18th.

Stores (2), Glenbrook avenue, Bryn Mawr, Pa. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, Frank Peter Paul, care of architect. Tapestry brick, 2 stories, 38x24 feet, slag roof, pine floors, plate glass, hot water heat, electric lighting. Architect is ready for bids.

High School, Sharon (Mercer County), Pa. Architects, Taylor & Hanna, Sharon, Pa. Owners, Board of Education, William H. Whitehead, secretary, Sharon, Pa. Brick, cut stone and steel, 3 stories, 195x171 feet, metal lumber and concrete roof, concrete and maple floors, metal lath, elevators, iron work, floor hardener, bond, hollow metal skylights (heating, plumbing and electric wrok separate bids). Lowest bidder: Sharon Building Co., Sharon, Pa., $399,600.

Pennsylvania Contracts Awarded

Display Room and Garage, Old York road, Jenkintown, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, T. W. Montague & Co., Inc., Jenkintown, Pa. Brick, cut stone and steel, 2 stories, 36x34 feet, slag roof, composition, pine and cement floors, metal lath, elevators, plate glass, bond, steam heating, electric lighting. Contract awarded to Brown Const. Co., 105 Levering street, Philadelphia.

Home Economics Building, Westtown, Pa. Architect, Walter F. Price, 119 South Fourth street, Philadelphia. Owners, Westtown Boarding School, Westtown, Pa. Brick, 2½ stories, 92¾x28½ feet, slate roof, pine floors, hollow tile, dampproofing, tile and marble, concrete work, copper skylights, electric lighting, vapor vacuum heating. Contract awarded to William H. Jones, West Chester, Pa.

Building, 726-28 Penn street, Reading, Pa. Architect, Fred A. Muhlenberg, 30 Liberty Bank Building, Reading, Pa. Owners, Harold Furniture Co., 812 Penn street, Reading, Pa. Brick, cut stone and steel, 5 stories and basement, 270x40 feet, composition and tile roof, cement floors, demolitioin, roof ventilators, waterproofing, terra cotta, iron work and iron stairs, bond, fire doors, rolled steel sash, terrazzo work, metal lath (heating, electric work, plumbing and electric elevators separate bids). Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

Residences (11), Conshohocken, Pa., $47,000. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owners, Lee Tire & Rubber Co., Conshohocken, Pa. Brick, frame and brick, frame and concrete block, 1½, 2 and 2½ stories, 25x25 feet, asphalt slate roof, electric lighting, hot water heating (electric lighting fixtures and gas ranges reserved), pine floors. Contract awarded to Carl F. Hirsch, 462 North Franklin street, Philadelphia.

Garage, 619 North Fifth street, Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, J. E. Sullivan, on premises. Brick and stone, 1 story, 31x38 feet, composition roof, concrete floors, hot water heating, electric lighting. Contract awarded to Charles H. Schlegel, 2250 Perkiomen avenue, Reading, Pa.

Factory, Mt. Nebo, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Liebovitz & Sons, care of architect. Frame, 1 story, 27x40 feet, composition roof, pine floors. Contract awarded to D. L. Saylor & Son, Annville, Pa.

Dauphin County Memorial, Elizabethtown, Pa. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Masonic Home, Elizabethtown, Pa. Stone, cut stone and steel, 3 stories, 102x38 feet, slate roof, cement, maple and composition floors, metal weather strip, iron work, floor hardener, bond, metal lath, marble work. Contract awarded to S. W. Shoemaker & Son, 421 Walnut street, Harrisburg, Pa.

School, North Whitehall Township, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, North Whitehall Township School Board, Ironton, Pa. Brick, 2 stories, 12 rooms, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work, safety treads, roof ventilators, waterproofing and dampproofing. Contract awarded to Butz & Clader, Ainey Building, Allentown, Pa. Heating to American Heating & Vent. Co., 200 North Fifteenth street, Philadelphia. Plumbing to Edwin P. Saeger Co., Allentown, Pa. Electric wiring to A. C. Dullenkopf, Bethlehem, Pa.

New Jersey Construction News

Sales and Service Building, Ninth and Federal streets, Camden, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Neel Cadillac Co., Camden, N. J. Brick, limestone and steel, 4 stories, 64x112 feet, slag roof, cement and wood block floors, metal lath, tile and marble work, rolled steel sash, plate glass. Architects taking bids.

Morris Heights Inn (alts. and add.) to Apartment, Morris Heights, N. J. Architects, William Slack & Sons, St. Regis Theatre Building, Trenton. Owner, John H. Morris, Trenton, N. J. Frame, 3 stories, 20x30 feet, hardwood floors, partitions, tile work, electric light, general interior alterations. Plans in progress.

Residence, Merchantville, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owner, M. C. Bottomley, care of architect. Brick, 2 stories, 38x26 feet, 20x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Revised plans in progress.

Residence, Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, Mr. Lester Bingley, 211 Perry street, Trenton, N. J. Frame, 2½ stories, 32x30 feet, shingle roof, hardwood floors, electric lighting. Plans in progress.

Residence, Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, J. Howard Ronan, 1305 West State street, Trenton, N. J. Frame, 2½ stories, 32x30 feet, shingle roof, hardwood floors, heating undecided, electric light. Plans in progress.

Store, Broadway and Pine streets, Camden, N. J. Architect, Thomas Stephen, Masonic Temple Building, Camden, N. J. Owners, W. L. Hurley & Co., 451 Haddon avenue, Camden, N. J. Brick. Preliminary plans in progress.

Hotel (alts. and add.), Park avenue, Atlantic City, N. J. Architects, Hewitt & Ash, 1827 Arch street, Philadelphia. Owners, Cheltenham Revere Hotel, Mrs. R. W. Richards, on premises. Brick, stone and reinforced concrete, 4 stories, basement, 66x48 feet, slag roof, cement and pine floors, roof ventilators, waterproofing, steam heat, electric light, tile work. Architects taking bids due October 18th by noon.

Store and Apartment, 525 Broadway, Camden, N. J. Architect, Thomas Stephen, Masonic Temple Building, Camden, N. J. Owners, W. L. Hurley & Co., 451 Haddon avenue, Camden, N. J. Brick, 1 story, 20x100 feet, slag roof, pine and terrazzo floors, hot air heat, electric light, marble and terrazzo work, roof ventilators. Architect taking bids due October 19th.

Bank, Audubon, N. J. Architect, Harold Allen, 526 Stevens street, Camden, N. J. Owners, Audubon National Bank, Audubon, N. J. Brick, cut stone, steel and reinforced concrete, 2 stories, 40x66 feet, slag roof, cement, maple floors, metal lath, hot water heat, electric lighting, tile, marble and terrazzo work, bond. Bids due October 18th.

Residence, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Bruce Bedford, Luzerne Rubber Co., Muirheid avenue, Trenton. Brick, 2½ stories, 58x33 feet, slate roof, hardwood floors, vacuum steam heat, electric light, tile work. Architect taking bids due October 12th.

Factory (add.), Beakes and May streets, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Essex Rubber Co., on premises. Brick, steel, 2 stories, 50x50 feet, slag roof, concrete and maple floors, electric light, waterproofing, fire escapes. Owner is taking sub-bids.

Residence, College street, Trenton, N. J., $9,000. Architect, private plans. Owner, Genarro Lucillo, 65 Anderson street, Trenton, N. J. Brick and shingle, 26x30 feet, slate roof, hardwood and pine floors, electric lighting. Owner will build.

Pumping Station, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, Commissioner Feel, Trenton, N. J. Concrete, stone, 1 story, 40x80 feet, slate roof, concrete floors. Low bidder: William Hicks, Trenton, N. J.

New Jersey Contracts Awarded

Garage and Stable, Eighth and Market streets, Camden, N. J., $62,000. Architect, private plans. Owners, Supplee-Wills-Jones Co., Twenty-sixth and Oxford streets, Philadelphia. Reinforced concrete and steel, 2 stories, 130x60 feet, slag roof, cement floors, waterproofing, rolled steel sash. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

New Hotel Clarion, Kentucky avenue and Beach, Atlantic City, N. J. Architect, William Macy Stanton, 1524 Chestnut street, Philadelphia. Owner, S. K. Boniface, Atlantic City, N. J. Brick, stone and reinforced concrete, 6 stories, 69¾x40¾ feet, shingle, composition and tin roof, cement, tile and oak floors, elevators, hollow tile, terra cotta, ornamental iron work, flush bulks, metal lath, tile work, steam heat (lighting reserved). Contract awarded to Newton W. Knauer, Atlantic City, N. J.

Office and Stores (alts. and add.), 38 East State street, Trenton. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owners, Fisher Estate, Edward Fisher, care of architect. Steel, semi-fireproof, 4 stories, 19x65 feet, slag roof, pine floors, hot water heat, electric light, hollow tile, metal lath, tile work, rolled steel sash, roof ventilators, waterproofing and dampproofing. Contract awarded to W. C. Ehret, Trenton, N. J.

Miscellaneous Construction News

Office Building, Louisville, Ky. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, name withheld. Brick, 3 stories, 24x100 feet. Plans in progress.

Store (int. alts.), Boston, Mass. Architects, McLanahan & Benckert, Bellevue Court Buildin, Philadelphia. Owners, S. B. & G. W. Fleischer, Inc., Twenty-fifth and Reed streets, Philadelphia. Brick, 1 story, 20x160 feet, general interior changes. Plans in progress.

Monastery, Wilmington ,Del., $90,000. Architect, Paul A. Monaghan, 1208 Chestnut street, Philadelphia. Owners, Ursuline Nuns, Wilmington, Del. Brick and steel, 3 stories, 100x60 feet, slate roof, oak koors, electric lighting, tile and marble work, iron work, waterproofing. Contract awarded to Joyce & Kerrigan, 114 North Broome street, Wilmington, Del.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 2, 1922.—Sealed Proposals will be opened in this office at 3 P. M., October 30, 1922, for alterations, etc., to the United States Post Office, Court House, and Custom House, at Richmond, Va., including alterations to adjoining buildings and approaches. Drawings and specifications may be obtained from the Custodian at Richmond, Va., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 5, 1922. Sealed Proposals will be opened in this office at 3 P. M., October 31, 1922, for

counters in Room 423 and Laboratory in the United States Treasury Building, Washington, D. C. Drawings and specifications may be obtained at this office. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 6, 1922. Sealed Proposals will be opened i nthis office at 3 P. M., November 1, 1922, for construction (including mechanical equipment) of a one-story laundry building covering 5,130 square feet, for the United States Veterans' Hospital at the Bronx, New York, N. Y., to be completed within four months from award of contract. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. Before drawings and specifications are forwarded to prospective bidders, applicants must cite at least one specific instance where a record for speed has been established on a job of equivalent magnitude, giving date of award of contract, amount of contract, specified time for completion and date of actual completion. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 648)

been repeated in greater or less degree every week, and sometimes a half dozen times a week during this whole thirty years. Mr. Moorhead said that the best stroke of business he ever did was when he organized that building and loan association.

Does that convey any lesson to you realtors? Don't you know that every time a building and loan association makes a loan to a man it increases the value of the property all around you? Perhaps you even get the money with which he buys the lot. Now isn't it up to you to back up these building and loan associations and help to make them popular and help to finance them in the efforts which they are putting forth?

One of the most hopeful signs in our current events is the growing spirit of co-operation and mutual helpfulness which is so rapidly growing up in all lines of business.

The great problem of providing adequate funds for financing the great program of home building with which our country is confronted is of vital importance not only to the public at large but to every line of business which must take part in the work.

Each one of these lines of business is vitally interested in the building association which must be the source from which the funds come to finance all these various steps which convert the wandering, rent-paying tenant into a home-owning, home-loving, patriotic citizen.

(Extract from an address delivered before the National Association of Real Estate Boards during the Conference on Realty Financing held in San Francisco, Cal.)

PRACTICAL POINTERS ON SELECTION AND USE OF HOT AIR FURNACES FOR RESIDENCES

Some Principles of Hygenic Heating Discussed

BY R. B. MONFORT

For the past ten years you have heard a great deal about bacilli, contagion, germs, infection and the need of sanitation. Also you have learned that scientists have made great progress in combating various diseases arising from different sources and that the advancement made along these lines has proven a great benefit to humanity.

Along with the many good things accomplished it would seem, however, that the old adage "An ounce of prevention is worth a pound of cure," should be the ultimate goal, thereby eliminating much unnecessary suffering.

Such a course might not prove practical for all ills, but a very large per cent. of the ailments classified under the head or "bad air diseases" are really preventabe, and their eimination, to a very great extent, woud lessen the mortality in the home. Death by disease is most miserable but the majority of us go that way.

Although winter is supposed to be the recuperating period, the so-called modern methods of living have apparently caused a reversal of nature's plan and these afflictions could rightfully be called "winter diseases." When we shut ourselves in the house with artificial heat, and no serious effort is made to exclude the fire-poisons or provide adequate ventilation, the membranous and nervous disorders become prevalent and often violent.

Real if Not Visible

Unfortunately very few of us pay any attention to the quality of the air in our homes when it is most essential to our very existence. Did you ever stop to think that you could live ten thousand times as long without food and fifteen hundred times as long without water as you can without air? If it is advisable to pay so much attention to the purity of our food and water, it behooves us to pay even greater attention to the purity of the air which we breathe.

Nature performs wonders if her ways are not interfered with too seriously and this article is written with a hope that in some measure we can contribute to better hygenic conditions in the home, during the winter months, more than one-half the year, by showing how to preserve nature's vitalizer—pure air.

Is the Mission to Serve or Destroy?

One of the most dangerous sources of contamination from the heating plant is the escape of the products of combustion through the fire-box into the air circulation. Of these you must realize that carbon-monoxide, an insidious gas, is the most dangerous because its present in the atmosphere even in minutest quantities, acts as a slow poison destroying the "haemoglobin" or half-mature cells in the process of formation. This breaking down of the cells is responsible for many serious nervous disorders, kidney and heart afflictions, and their accompanying disastrous effects.

Should you save the newspaper clippings you would be astounded by the number of families that are entirely wiped out by carbon monoxide poisoning, which only emphasizes that it is the most deadly gas known.

Irregular temperatures are not conducive to good health nor do they add to the comfort of the occupants of the building. They seriously interfere with the natural thermostatic action of our bodies, which is nature's method of protecting us against too sudden changes, consequently play their part in causing colds.

Super-heated air has the same depressing effect as stagnant air, both having the vitalizing principles or energizing properties destroyed. Very few people are able to distinguish between "scorched" or "stale" air and both are recognized as "stuffy" or "dead." Chemical analysis seems to reveal no difference. They both have a decided depressing effect upon our physical stamina.

It is easy to understand why but few people realize to what degree the air in a building becomes contaminated by the occupants, because they have never studied this subject.

The exhalation of carbon dioxide from the lungs, the evaporation from the body, saturate the atmosphere with foul moisture which by lessening our powers of resistance increases our susceptibility to disease. To show that this point is worthy of consideration, the actual secretion of H_2O from the eye, nose and mouth of the average adult in one hour is eight ounces or one common glass full. Add to this the effluvia from our bodies consider the total pollution and you will realize why many homes are "culture medium" for the multiplication of germ life. These facts are called to your notice to impress upon you what the atmosphere in most houses lacks that is essential, and what it contains that is detrimental to your welfare.

Cleanliness for Self Protection

To enjoy the measure of satisfaction, happiness and health, that one should rightfully expect, extra precaution must be taken to prevent the contamination of the air by the heater itself; to prevent the destruction of the energizing properties of the air by overheating and to promptly remove any contamination to the atmosphere by the occupants of the building. In other words build your homes a safe refuge for your customers during the winter, by having the atmosphere as fresh and invigorating as it would be outdoors.

To obtain a heating equipment that will insure necessary hygienic benefits it will naturally require some outlay of money and in order to come within the means of a large per cent. of the intending home owners you will naturally recommend the warm air gravity system. Steam or hot water heating plants combined with a ventilating system are satisfactory in large buildings. In small cottages, however, the cost generally prevents their use.

The FireBox the Critical Element

Steel, which is impervious to penetrating gases, answers admirably for the construction of the fire-box, the different parts should be securely welded, eliminating all rivets and seams so that it is made imperforate, or into one continuous piece of metal. All top surfaces should be eliminated and the radiating surface should be free from all irregularities with ample space between heater and casing to permit an uninterrupted air supply of large volume.

Avoid Scorched Air

That the air may be only mildly heated, never above 150 degrees F. at point of contact with the furnace, large capacities must be specified in both heater and warm air pipes, and a positive automatic control should be utilized, of which the fire-box proper is the principal and actuating member. This not only prevents overheating that devitalizes the air but is a great personal relief from many of the anxieties and uncertainties that seem to be a part of the ordinary heating plant. Not only uniform temperature with but slight attention to the equipment is secured, but it is a protection to the heater and a protection to the home, which gives a great sense of security from unexpected disaster.

Advantages of Rapid Internal Air Movement

The ventilation and heating are so interdependent that they must be embodied in the same system. On this point you must not compromise the health, vitality or personal development of the household.

The air should be completely changed in each room every ten or fifteen minutes and the analysis should be such that at no time will it test more than six parts of carbon dioxide to ten thousand parts of air, which comes within the prescribed limits of the health authorities. To make this possible it is essential that the return capacity to the furnace equal the capacity of all warm air ducts and in addition an outside air pipe be provided of sufficient size to supply twenty-five hundred cubic feet of air per hour, per person, figuring twice as many persons in bed rooms as the average occupancy.

The returns must be scientifically distributed so as to positively prevent annoying and dangerous drafts upon the floor. If the home has an open stairway, a large return face should be located near the bottom to prevent the cooler air from upstairs spreading over the first floor, and the other return faces should be so distributed throughout the living rooms to avoid any disagreeable drafts, even to small children playing upon the floor. The ordinary fire place is usually sufficient for vent purposes.

In addition to the advantages outlined you are assured of a rapid internal circulation that trebles the movement of the air; positive distribution, which makes the heating of windward rooms feasible; the avoidance of great differences in temperature between floor and ceiling and the prompt removal of the vitiated air.

Economy Essential

Items in furnace construction that spell *Economy* in big letters are as follows: Design of fire-box eliminating irregularities with maximum radiations; complete down draft principles; large fuel space with large grate area in proportion, insuring slow combustion and automatic regulation preventing wasteful fires and disastrous over-heats.

Two other things are such important factors that they deserve special mention, not because they come within the province of the building contractor, but because they mean such a saving to the home owner: The depth of the basement, which should be eight feet in the clear if drainage will permit, and the air tight construction of a furnace flue of proper capacity. The greater the depth of the cellar the more elevation to the warm air pipes, consequently the more positive the distribution of heat. Helping to reduce fuel consumption to the minimum with no valuable head room utilized are other valuable features insured. A long article could be written on flue construction but we will pass the subject by saying a leaky chimney often increases fuel consumption over 100 per cent. and decreases heating efficiency over 50 per cent.

Harmony Important for Ideal Results

The heating plant should have right of way over plumbing and electric wiring obstruction and not interfere seriously because the two latter can easily avoid with their efficiency.

The building contractor can assist in many ways by extending his co-operation in the practical location and installation of heating, equipment. This means greater heating efficiency at less cost which gives a greater sense of satisfaction to the home owner, consequently works to the advantage of all concerned.

By planning the heating layout with the building, with the view of obtaining maximum results, the builder will render invaluable service to his client.

The selection of the proper heating apparatus combined with the harmony of forces as suggested will render a great service to humanity and enable many a progressive man to realize his life's ambition of a nice home, which provides comfort, health and happiness for his family. Nature's restorer, pure air should prove his greatest blessing.

The Chimney

Few owners of heating plants realize that the chimney is a vital factor in securing the proper combustion of fuel and the satisfactory distribution of heat. The chimney creates the draft for any kind of heating apparatus. The furnace, in itself, has no appreciable draft—a fact not recognized when the furnace smokes and the house is cold. Far too much worry, inconvenience, and ill feeling have resulted from a lack of knowledge about chimneys on the part of many house owners and some chimney contractors. If the furnace smokes, if the fuel does not burn properly, if the temperature does not register the degree specified in the contract, the heating system, too often is condemned. Then follow complaint, discussions tests, loss of time and loss of money. The conclusion of the whole matter, in a very large percentage of cases, is a poorly constructed flue.

The primary function of a flue is to provide a suitable conduit for the escape of the smoke and gases thrown off by the process of combustion. A necessary physical condition is a small area wherein a uniformly higher temperature can be maintained than that of the outside temperature. The essential object must not be overlooked in chimney building.

Building Age.

The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.

Reference Directory for Architects, Builders and Owners

ARTESIAN WELLS.
Artesian Well Drilling Co.,
Aramingo and Girard Ave., Phila.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS AND ARCHITECTS' SUPPLIES.
General Reproduction Co.....1518 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

AUTOMATIC WATER HEATERS.
C. F. Tinnermann.....5940 Arch St., Phila.

BANK PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
General Reproduction Co.....1518 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

CABINET WORK.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, & Co. .....1211 Mascher St., Phila.

CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

COLUMNS (Metal).
Pearce Fireproof Co.....1345 Arch St., Phila.

COMPOSITION FLOORING.
Woodoleum Mfg. Co. .....133 Arch St., Phila.

CONCRETE WORK.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONSULTING ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

CONTRACTORS' EQUIPMENT
Moore & Weisbrod.....229 N. 12th St., Phila.

DAMPPROOFING.
Arvon Co. .....1814 Ludlow St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co. ..Harrison Bldg., Phila.
Gibson, Thomas F. .....Franklin Trust Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
General Reproduction Co.....1518 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

ENGINEERS
Stewart A. Jellett Co.....1200 Locust St., Phila.

ENGINEERS' SUPPLIES.
General Reproduction Co.....1518 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

EXCAVATING.
Croyle, Guy .....Merion Station, Pa.

FANS AND BLOWERS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works.
1505 N. Mascher St., Phila.
Potts, Horace T. & Co .....316 N. 3rd St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

FLOOR HARDENER.
Thos. F. Gibson.....Franklin Trust Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HAULING CONTRACTORS.
Riddle, Wm. H. .....1110 S. 31st St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1026 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Mont Clare Foundry Co.,
N. E. Cor 11th and Ridge Ave., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

INSULATION.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE.
Insurance Co. of North America.
3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Adelheim & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....531 N. 4th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LEVELS.
General Reproduction Co.....1518 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

LIGHT IRON CONSTRUCTION.
Adelheim & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works.
1505 N. Mascher St., Phila.

LUMBER.
Felin, Chas. F., & Co.,
Old York Road, above Butler St., Phila.
Haney-White Co. .....17th and Glenwood, Phila.
Irwin, James M.. & Co. .....976 N. 8th St., Phila.
Ketcham, Howard .....3rd and Girard Ave., Phila.
Kugler, Geo. W., & Sons Co.,
915 New Market St., Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

MARBLE MOSAIC.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

METAL LATH.
Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

MILL WORK.
Haney-White Co. .....17th and Glenwood, Phila.
Shaw, James.....52nd and Woodland Ave., Phila.

OFFICE PARTITIONS.
Sjostrom, John E. Co. .....1715 N. 10th St., Phila.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

ORNAMENTAL IRON.
Adelheim & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works.
1505 N. Mascher St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

PAINTING (Plain and Decorative).
Clark, M. H. .....58th and Larchwood Ave., Phila.
Colonial Shop, Inc.....1222 Chancellor St., Phila.

PAINTS AND VARNISHES.
Truscon Laboratories.....1432 S. Penn Square, Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.

PIPE COILS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St.. St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.

RANGES
Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATORS.
Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

ROAD WORK.
Croyle, Guy .....Merion Station, Pa.

ROOFING.
Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.
Tinney, Walter H., Co.,
63rd and Woodland Ave., Phila.

ROOFING SLATE.
Baird, A. S. .....24 S. 7th St., Phila
Chapman Slate Co. .....Bethlehem, Pa.
Emack, The John D., Co. .....Otis Bldg., Phila.

ROOFING TILE.
Baird, A. S. .....24 S. 7th St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,
Nicetown Lane and Powder Mill Road, Phila.

SAFETY GUARDS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

SAND AND GRAVEL.
Baird, A. S. .....24 S. 7th St., Phila.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co.,
24th and Callowhill Sts., Phila.
Magna Sand Co. .....139 S. 3rd St., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

SEWER PIPE.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

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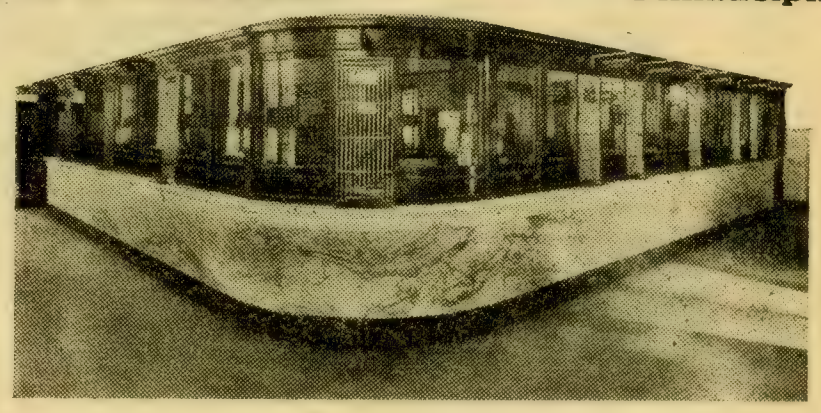
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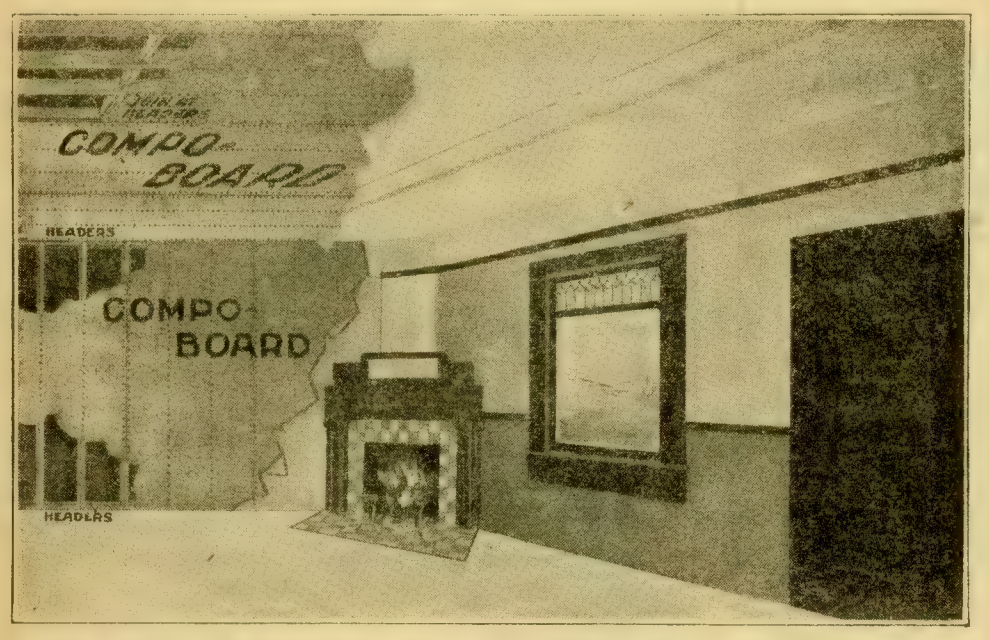
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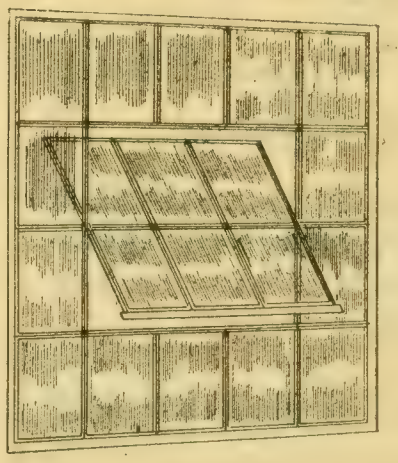
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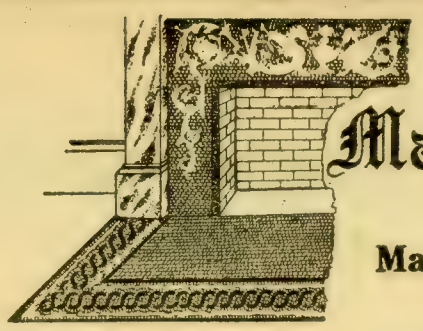
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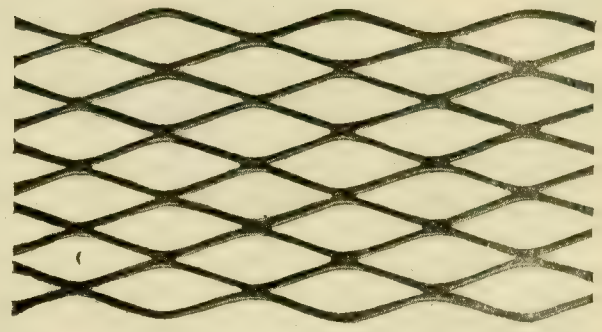


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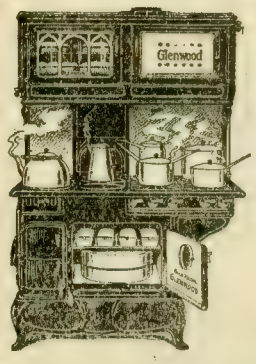
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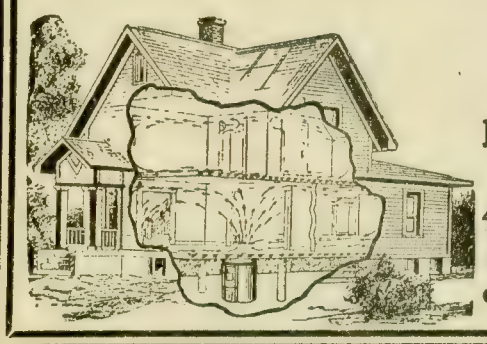
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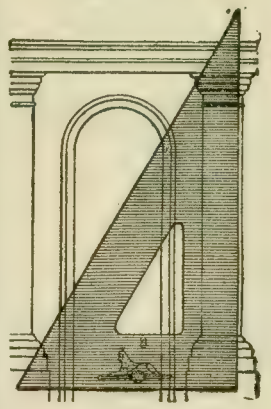
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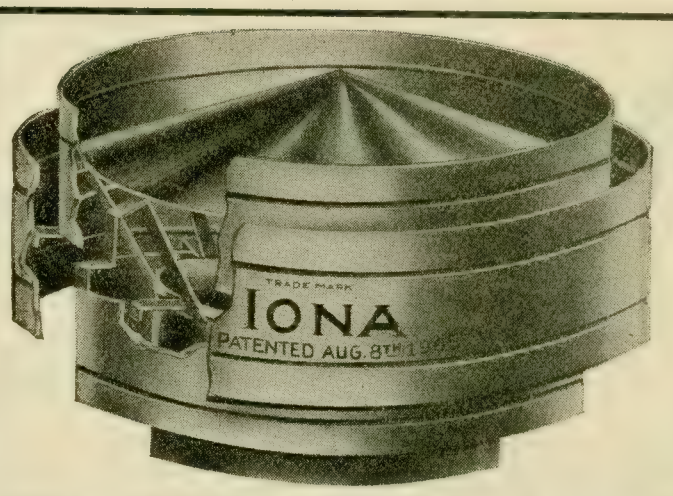
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October 18, 1922

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As The Editor Sees It

THE pubic mind is so filled with thought of the dire results of strikes and the irretrievable losses resultant therefrom, that a more optimistic view of the situation is interesting and refreshing. Discussing the "Costs of Strikes," *The New York Lumber Trade Journal* says:

Counting the Costs of the Strikes

Now that the whole strike situation is in a manner of speaking clearing up, it is a good time to sum up, take stock and count the cost of it all. A number of our best known economists, not to say statistical sharps, not counting the rest of us, are doing that very thing.

There is a lot of nonsense being talked about it, with too much of mere estimates or fine-spun theory and therefore apt to be misleading. This is as always, and apparently inevitably the case. It is well to remember that we cannot lose something that we have never really had. It is like counting the chickens that never were hatched. So where it runs over into the realm of pure theory, one man's guess is as good as another man's estimate, or maybe more so; and vice versa.

But the lesson has been brought home to all that in the last analysis it has cost the country as a whole—producers, laborers and consumers alike, enough and a plenty and more than they can well afford. Those who have not learned that salutary lesson are dead past all learning. On the other hand, it has been mainly omission rather than commission. It has been a measure of lost productive effort, not comparatively or to any great extent actual destruction of the real material products of human enterprise, energy and effort, such as would result from the ravages of war for instance. So, in the long run, a lot of it will be made up by speeding up till they catch up. For example a given amount of building lumber of all kinds will be sold necessarily until the building program has again caught up to normal, with meantime an equivalent in money made in profits and wages to bring about that result, and sales of lumber to make good accordingly. In other words, when this consummation is at last reached (whenever that may be, the resultant sum total of material wealth produced up to the end of that time will be in substantially equivalent terms as it would have been and with the same total substantial benefits accruing to all just the same as if the strikes had never been. It will take longer, that is all.

So anything like definite detailed statements are apt to prove misleading, as indicated, unless given with limitations and considerable leeway to come and go on. When we remember that what we actually live on has practically to be produced out of the ground each year, it is obvious that real wealth, with due industry, can be produced very fast. In other words, the picture, to give the best idea, needs to be sketched large with the details left much to the individual imagination and experience. Some individuals have lost more than others, notably the strikers in the lack of needed wages; but one of the biggest factors hardest to estimate is the lost motion which leaves for the time being the commercial and industrial machine and individual energies alike inactive to an extent that they begin to grow rusty from disuse. This is a very real loss. But nothing is essentially a loss that it is possible to catch up; in the building program for instance, as cited.

Possibly another worth while acquisition is the mental attitude that inheres in employers and laborers alike at the close of the strike. It is a distinct gain for them if only partially to get it off their chests and out of their systems. One heard it said by many a year ago when the railroad strike was obviated at the last minute after much of the psychological mischief had been done, that the matter had to be settled some time and it would as well or better have been settled right then. The sooner the better. But the immediate expediency of the moment tended then as always to rule the situation; and as to that, at that time the most of us were as guilty as all the rest of us in being willing to temporize and to let it be settled in a way that we knew it wouldn't stay settled. It was like a germ in the system to be got rid of, and

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while even yet it has not definitely and conclusively been eliminated, there is no question that everybody is happier even though nobody got exactly what he wanted and didn't expect.

We do not know how some of the costs of the strikes are arrived at and frankly question some of the statements of actual figures until we do. Some of them look as if they were made to look big on purpose and simply in order to astonish. So much is assumed as a basis that one must consider the conclusions incorrect if one stops to consider them and cannot admit the original assumptions. If in the end it shall turn out that the total loss is one-half or even one-fourth what some of the estimates make it, then it will be indeed stupendous. Anyway let us hope that it will be many a long day before we have another such.

General statements and conclusions are more convincing than any concrete figures. Our indefatigable Secretary of Commerce, Mr. Hoover, takes on the whole perhaps the largest, sanest and most comprehensive view of it that we have seen. Talking in terms that are convincing because of their reserve strength and lack of over statement, he says:

"While the losses to the country due to the two great strikes are considerable, they are easily overestimated. The estimate of current coal miners' wages lost in the five months is not a correct basis because over a period of eighteen months we will probably consume approximately the same amount of coal. In other words, the miners will work more days in the week and produce more coal in the next six or eight months than they would have produced if there had been no strike, and thus the wage roll of the next six or eight months will be larger and will in a considerable degree compensate the loss during this suspension.

"The greatest loss today is the one being met by the farmer as a result of the railway strike. The export of farm products has been seriously interfered with by the inability of the railways to transport produce. Prices are therefore unduly depressed in the agricultural regions and the farmer is suffering grievously.

The inability to transport manufactured products will create some degree of loss, but not so serious as that to agriculture.

"In the broad view, however, if we can get back to business, if we can secure a resumption of transportation and rapid distribution of coal and agricultural produce, we will not have received such an economic wound as cannot be very quickly recovered from. We will probably not be on such a high plane of business prosperity during the next six months as we would have been had the strikes not taken place, but we will undoubtedly be on a much higher and much more comfortable plane than that of last year."

Coming down to the figures of the rail strike, we have seen estimates that put the total losses approximately at one billion dollars in nice round figures as follows: Loss in wages for the period $75,000,000; and by the railroads, $275,000,000 "in various ways," such as "reduced efficiency" of new men, run down equipment, extra strike expenses and damage to property. Then, while admitting there is no positive way of determining the loss, the "estimate" is made that the public has lost twice as much as the roads and the striking shipmen put together. That would be $10 for every man, woman and child in the country. We don't think we have actually lost that much. It doesn't sound reasonable.

INDUSTRIAL SPURT BEGINS AS MANUFACTURERS INCREASE FORCES

Reports to Association Show Industries Preparing for Big Production as Season Begins

Industry is ready for a striking increase in production this fall. This is shown conclusively by reports on the employment outlook received by the National Association of Manufacturers from its members all over the United States.

According to these reports, the great majority of American factories intend to make great increases in their working forces. Extensive increases are planned in the steel, building, lumber and automobile industries especially; and other industries are not far behind.

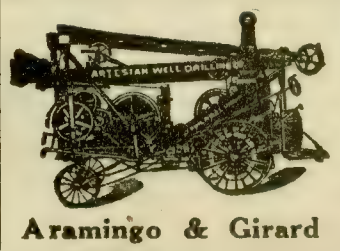
John E. Edgerton, president of the National Association of Manufacturers, has presented and analyzed these reports in a statement written especially for *The Industrial Digest.* Mr. Edgerton writes:

"Industry throughout this great land of ours will take on a real and definite spurt as soon as the brakes set upon it by the railroad and mine strikes have been completely released. By this I mean not only the return of the men to work, but an open evidence of a realization that the only way in which to put the country back on a real prosperous basis is to stop quarreling and go to work industriously and conscientiously.

"There can be no doubt in the mind of the public and of general business that the last two disruptions have put a check upon industry at the most inopportune time, at a moment when a majority of our active factories and industrial establishments were preparing to make extensions to meet an increased business that was already assured. Statisticians, official and otherwise, tell us of the hundreds

(Continued on page 675)

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Banking Room, Germantown and Roberts avenues, Germantown. Architects, Simons, Brittain & English, 336 Fourth avenue, Pittsburgh, Pa. Owners, Wayne Junction Trust Co., care of Mr. Scanlan, on premises. Brick, cut stone and steel, 3 stories, 110x40 feet, composition roof, cement and maple floors, hollow tile, metal lath, metal window guards, iron work, bond, kalamein doors, rolled steel sash, tile and marble work, steam heating, electric lighting. Revised plans in progress.

Garage and Dance Hall, Wyoming avenue and Mascher street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, P. Randolfi, Forty-first and Poplar streets, Philadelphia. Brick, 2 stories, 50x200 feet, slag roof, steam heating, electric lighting, cement and wood floors. Plans in progress. Architects will be ready for bids in two weeks.

Residences (alts.), 1914-16 Panama street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. J. K. Mitchell, care of architect. General renovation. Plans in progress.

Store and Apartments (alts.), Southeast Corner Twenty-second and Christian streets. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Benjamin Lander, Sixteenth and Christian streets, Philadelphia. Brick, 1 story ,10x16 feet, slag roof, composition floors, metal ceilings, hot water heating, electric lighting, plumbing, marble work. Plans in progress. Architect will be ready for bids in ten days.

Store (alts. and add.), 104 West Girard avenue, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, T. Tootallian, on premises. Brick, 2 story add., 12x24 feet, slag roof, plumbing. Owner is ready for bids.

Store (alts. and add.), 5727 Chester avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, William V. Rowan, Bailey Building, Philadelphia. Brick and steel, 1 story, 16x30 feet, slag roof, pine floors, metal ceilings, electric lighting. Owner will be ready for bids in a few days.

Stores and Apartments (6), Woodland avenue, East of Fifty-fourth street, Philadelphia. Architect, M. A. Boonin, 1506 North Alden street, Philadelphia. Owner, Denerman Steinberg, care of architect. Brick and steel, 2 stories, 15x50 feet and 17x60 feet, slag roof, pine, oak and compositioin floors, hot water heating, electric lighting, terra cotta. Owner is taking sub-bids.

Laundry, West side Saunders street, North of Filbert street, $10,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Presbyterian Hospital, Thirty-ninth and Powelton avenue, Philadelphia. Brick, 2 stories, 38x76 feet, slag roof, electric work, cement floors. Owners will build.

Residence, Southwest Corner Westmoreland and Carlisle streets, $2,500. Architect, R. C. Winter, 11 South Sixteenth street, Philadelphia. Owner, A. J. Hedricks, on premises. Brick, 2 stories, 12x9 feet, slag roof, yellow pine floors. Architect taking sub-bids.

Residence and Garage, Chestnut Hill, Philadelphia. Architect, Willing, Sims & Talbutt, 1627 Sansom street, Philadelphia. Owner, Richard T. Nalle, Chestnut Hill, Philadelphia. Stone and cut stone, 2½ and 1½ stories, 85x40 feet and 25x26 feet, shingle roof, oak, pine and cement floors, tile work, bond, iron work (heating, plumbing and lighting reserved). Architects taking bids due October 21st.

Laboratory, Nineteenth and Cherry streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Franklin Institute, 15 South Seventh street, Philadelphia. Brick, reinforced concrete and cut stone, 4 stories, loft and basement, 57x110 feet, slag roof, cement and pine floors, metal lath, elevators, waterproofing, bond, demolition, steam heating, electric lighting, tile and marble work, rolled steel skylights. Architect taking bids due October 25th.

Residence, 134 Rochelle avenue, Roxboro, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owner, Dr. E. C. Hibshman, 130 Rochelle avenue, Roxboro. Brick, 3 stories, 38½x21 feet, slate roof, hardwood floors, steam heating, electric lighting, tile work. Architect taking bids due October 23rd.

Johnson House (alts.), 510 South Broad street, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of City Property, Department of Public Works, Frank H. Caven, Director, 215 City Hall, Philadelphia. General construction alterations to provide fire protection, heating alterations and plumbing. Owners taking bids due October 24th at noon. Inquire Room 117.

Residence, Abington avenue, West of Stenton avenue. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owner, Theobald F. Clark, care of architect. Stone, 2½ stories, slate roof, oak and pine floors, hot water heating, electric lighting, tile and marble work. Architect taking bids due October 23rd at noon.

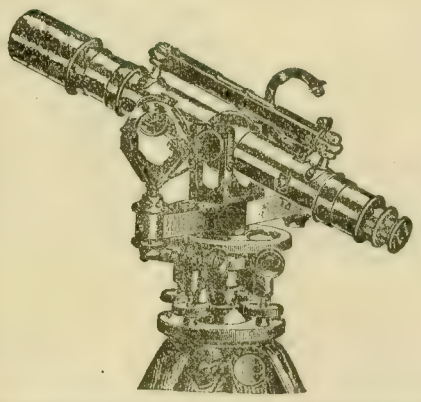
Residence and Garage, Oak road, Germantown, Philadelphia. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owner, George C. Stephenson, 3222 West Penn street, Germantown. Stone, 2½ stories, 58x31 feet and 22x20 feet, slate roof, oak, pine and cement floors, hot water heat, electric light, tile work, iron work. Architect taking bids due October 23rd.

Apartments (alts. and add.), 2037 Diamond street, Philadelphia. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owner, Miss Edna C. Sawyers, on premises. Brick, 3 stories, 18x10 feet, slag roof, pine and oak floors, plastering, plumbing, hardware, painting, glazing, iron work (heating, electric lighting and hardwood floors reserved), tile work. Architect taking bids due October 19th.

Building (alts.), 2047 Chestnut street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Harry Sharp, care of David Phillips, Lincoln Building. General alterations. Owner taking bids.

Apartments (9), South side Sansom street, West of Forty-ninth, and North side Pine street, West of Forty-eighth street. Architect, private plans. Owners, N. Raidman and S. Hankin, 5130 Walnut street, Philadelphia. Brick, 4 stories, 41x80 feet, slag roof, hot water heat, electric light, tile work, oak and pine floors, metal bulks. Owners will build.

Residences and Stores (7), East side Sixtieth, South of Hazel avenue, $43,600. Architect, private plans. Owners, Rosenblatt & Seidman, 10 South Sixty-first street, Philadel-



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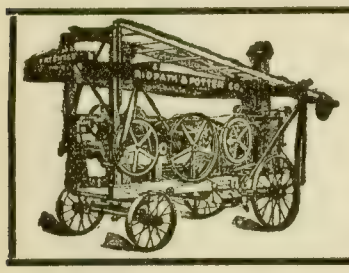
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phia. Brick, 3 stories, 16x51 feet, (7) 16x26 feet, 13x30 feet, slag roof, hot water heating, electric lighting. Owner will build.

Fuel Bin, Northwest Corner Tioga and Canton streets, $115,000. Architect, private plans. Owners, U. G. I. Co., Broad and Arch streets, Philadelphia. Brick and concrete, 2 stories, 110x34 feet, slag roof, cement floors. Owner will build.

Residence, Southeast Corner Ninth and Fishers avenue, Philadelphia, $6,500. Architect, private plans. Owner, W. E. Rees, Eighth and Fishers avenue, Philadelphia. Brick, 2 stories, 17x50 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (2), North side Mentor street, West of Second street, $4,500. Architect, private plans. Owner, Frank W. Biddle, 4651 North Fifth street, Philadelphia. Brick, 1 and 2 stories, 14x30 feet, 11x11 feet, and 15x41 feet, slag roof, electric lighting. Owner will build.

Residence, 4941 North Warnock street, Philadelphia, $5,000. Architect, private plans. Owner, H. Melcher, 1117 Roy street, Philadelphia. Brick, 2 stories, 15x41 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residence, East side Veree road, North of Faunce street, $4,000. Architect, private plans. Owner, Henry S. Harting, 7403 Bingham street, Philadelphia. Stone and frame, 2 stories, 24x28 feet, 11x10 feet, hot water heat, electric light. Owner will build.

Bungalow, 7408 Dorcas street, Philadelphia, $2,000. Architect, private plans. Owner, F. Beckhart, 7406 Dorcas street, Philadelphia. Frame, 1 story, 30x45 feet, shingle roof, electric lighting, pine floors. Owner will build.

Storage Building, 8301 Torresdale avenue, $3,100. Architect, private plans. Owners, Precision Grinding Wheel Co., on premises. Frame, 1 story, 53½x69 feet 9 inches, electric lighting. Owner will build.

Storage Building and Factory (add.), South side Wheatsheaf lane, East of Coral street, $3,400. Architect, private plans. Owners, Independence Mfg. Co., on premises. Brick, 1 story, 45x45 feet, slag roof, electric lighting. Owner will build.

Building (alts.), 3501 Spring Garden street, $2,000. Architect, private plans. Owner, A. Gallagher, Southwest Corner Thirty-seventh and Haverford avenue. General alterations. Owner will build.

Low Bidders on Grading and Paving, opened October 10th at Bureau of Highways, City Hall, Philadelphia:

Grading—Algar street, Princeton to Cottman street; John McCool Co., 112 East Albanus street, Philadelphia, $31,151.20. Haines street, Chew to Anderson; P. McManus, Inc., 224 North Thirty-second street, $3,067.56. Mascher street, Clearfield to Tusculum street; Thomas L. Flannigan, 1204 East Montgomery avenue, $1,785.28. Twenty-first street, from Sixty-fifth avenue to Sixty-sixth avenue; J. F. Nolen & Sons, 64 East Church lane, $2,054.86.

Asphalt Paving—Eastern Paving Co., Colonial Trust Building, low on following: Anderson street, Chelten avenue to Haines street, $9,946.33. Clearfield street, Hancock to Howard street, $12,160.79. Diamond street, Fifty-second to Fifty-fourth street, $12,363.05. Etting street, Allegheny avenue to Willard street, $3,777.01. Sansom street, Fiftieth to Fifty-first street, $4,321.45. Lancaster avenue, Fifty-second to Fifty-sixth streets, $33,568.30; Barber Asphalt Paving Co., Land Title Building, Philadelphia. Improving Beaumont avenue, Sixty-fifth street to Cobb's Creek Parkway; United Paving Co., Colonial Trust Building, $7,900. Reconstructing Meadowbank along Delaware River; Chew Brothers, Philadelphia, $4,770.

Store and Apartments and Sub-Basement, 319-21 South Fifty-second street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, N. Raahinsky, on premises. General alterations and additions, brick, slag roof, compositioin floors, hot water heat, electric lighting, tile and marble work, mill work, plate glass, metal ceilings, steel work. Owner is ready for bids.

Residence (alts.), 7684 Germantown avenue, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Walter H. Jarden, on premises. General alterations. Architect is ready for bids.

Stores (3) (alts.), 5272 Germantown avenue, Philadelphia. Architect, Charles M. Wells, Rutledge, Pa. Owner, name withheld. Tapestry brick, 3 stories, slate and slag roof, pine and maple floors, hot water heat, electric light, tile work, metal bulks, plate glass, painting. Plans in progress.

Miscellaneous Work, Fairmount Park, Philadelphia. Owners, Commissioners of Fairmount Park, A. Corson, C. E., 127 City Hall, Philadelphia. Bituminous macadam drive, addition to public comfort stations, connection between Spring Garden Street Bridge and West River Drive, demolition of buildings, Twenty-fourth and Callowhill streets. Bids due October 24th.

Residence and Store (add.), 5925 Lansdowne avenue, $3,000. Architect, private plans. Owner, I. Weinstein, 2827 Oxford street, Philadelphia. Brick, 1 story, 15x30 feet, 2 stories, 15x18 feet, slag roof, electric lighting. Owner will build.

Work Shop and Garage, 2409-11 Ann street, Philadelphia, $6,000. Architect, private plans. Owner, Eugene L. Zebel, 2997 Cedar avenue, Philadelphia. Brick, 2 stories, work shop, 36x20 feet, and garage, 24x16 feet, 18x69 feet, slag roof, pine and cement floors, electric light. Owner will build.

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Charles J. Mitchell, architect, formerly of 23 South Sixteenth Street, has opened a suite of offices at 21 South Fifteenth Street.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence and Store (alts. and add.), 37 South Fifty-second street, $3,000. Architect, private plans. Owner, John L. Steele, 1600 Arch street, Philadelphia. Brick, 1 story, 3x30 feet, slag roof, pine floors. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Hall (alts.), 1807 Spring Garden street, Philadelphia, $9,300. Architect, private plans. Owners, International Brotherhood of Electrical Engineers, on premises. Brick, 1 story add., 36x76 feet, slag roof, electric work. Contract awarded to A. Raymond Raff, 1635 Thompson street.

Store and Apartment (alts. and add.), Northeast Corner Twenty-ninth and Oxford streets, $5,000. Architect, private plans. Owner, Philip Green, on premises. Brick, 1 story, 15x9 feet 4 inches, slag roof, electric lighting. Contract awarded to Joseph Eskin, 4106 Westminster avenue.

Residence, 2734 West York street, Philadelphia, $4,000. Architect, private plans. Owner, Mrs. John Carroll, 2220 Sedgley avenue, Philadelphia. Brick, 2 stories, 14x27 feet, 11x13 feet, slag roof, hot air heat, electric light. Contract awarded to Thomas J. Morris, 1853 Judson street.

Store Building, Southwest Corner Thirteenth and Sansom streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick, reinforced concrete and steel, 3 stories and basement, 20½x60 feet, slag roof, pine floors, roof ventilators, dampproofing, ornamental iron work, bond, kalamein doors, tile, marble and slate work, metal lath, steam heating, electric lighting (lighting fixtures reserved). Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Garage (add.), Ninth and Luzerne streets, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick and steel, 1 story, 71x125 feet, slag roof, cement floors, demolition, rolled steel doors, bond, iron work, (heating, plumbing, electric work and elevator reserved). Contract awarded to United Eng. and Const. Co., 5913 Vine street.

Settlement House, 1330 to 1334 Frankford avenue, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, Lutheran Mission Society of Philadelphia, Witherspoon Building. Brick, cut stone and steel, 3 stories, 73x42 feet, slag roof, concrete, maple and cement floors, metal lath, terrazzo, iron work. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Parochial School, Twenty-fourth and Wallace streets, Philadelphia. Architect, Charles J. Cummiskey, 118 West Sharpnack street, Germantown. Owners, St. Francis Xavier Roman Catholic Church, care of Rev. C. J. O'Keefe, Twenty-fourth and Green streets, Philadelphia. Stone, brick, granite, concrete and steel, 3 stories and basement, 184x100 feet, slag roof, cement and maple floors, hollow tile, slate work, terra cotta, iron stairs, ornamental iron work, metal lockers, kalamein doors, hollow metal sash, metal lath, electric lighting (heating reserved). Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Residence and Garage, Seminole avenue and Graver's lane, Philadelphia. Architects, McIlvaine and Roberts, Otis Building, Philadelphia. Owner, Gilbert Shearer, 416 Walnut street, Philadelphia. Stone, 2½ stories, 75x22 feet, wing 22x23 feet, garage, 1½ stories, 18x20 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile and iron work. Contract awarded to A. M. Zane, Land Title Building, Philadelphia.

Residence (add.) and Garage, 2417 North Fifty-fifth street, Philadelphia. Architect, Edwin A. Yeo, 225 South Sydenham street, Philadelphia. Owner, John M. McCurdy, 3334 North Sixteenth street, Philadelphia. Hollow tile and stucco, 1 story, 19x24 feet, slag and shingle roof, cement floors, hollow tile (heating, lighting and plumbing reserved), iron work. Contract awarded to Terry McCluskey, 420 West Wyoming avenue.

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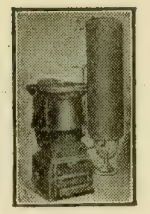
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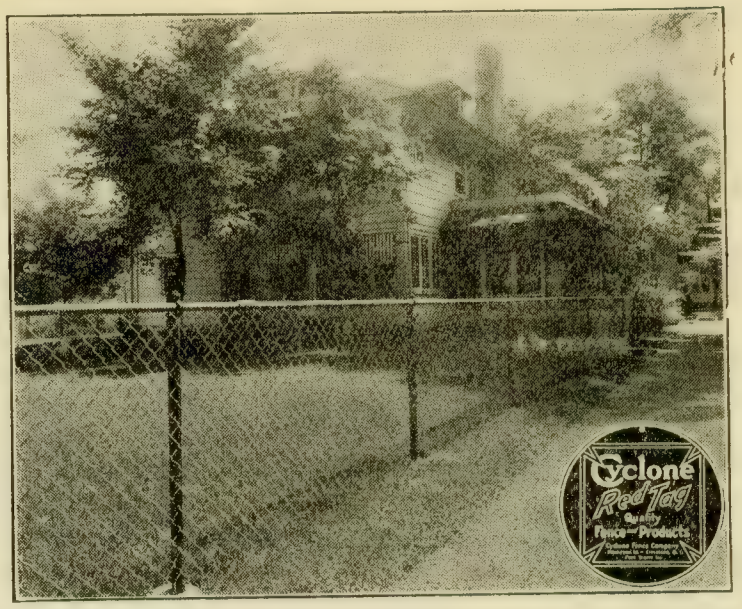
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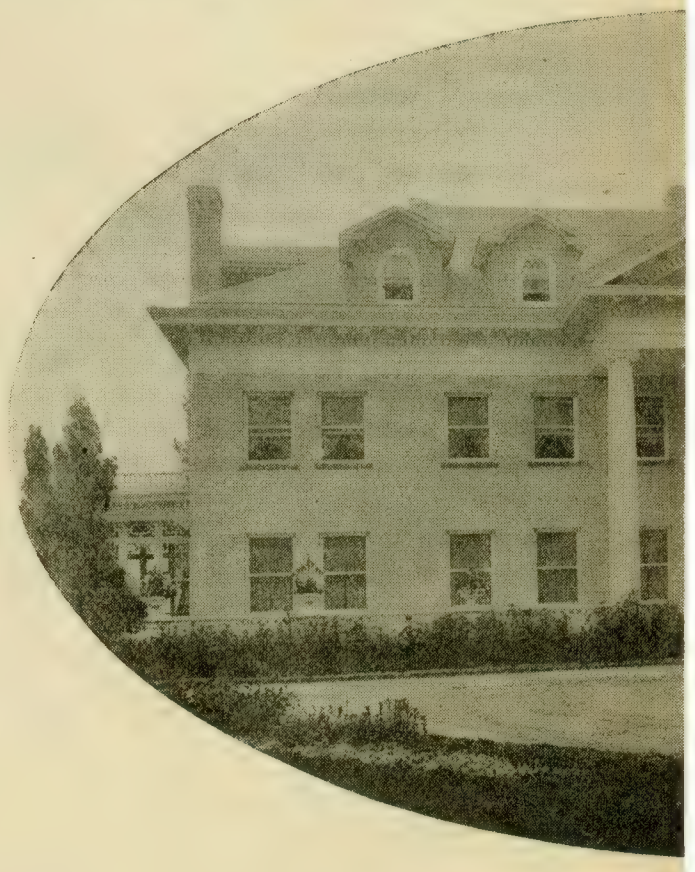
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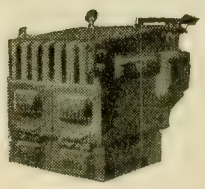
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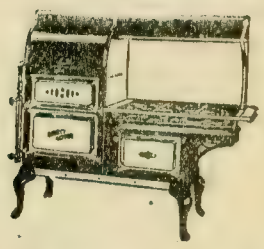
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Chauffeurs' Quarters, 604 North Twenty-first street, Philadelphia. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, George W. Robertson, care of architect. Brick, 3 stories, 16x70 feet, garage add. 16x40 feet, slag roof, reinforced concrete, cement and pine floors, metal lath, vapor heating, tile work, plumbing, mill work, carpentry, sliding doors, general alterations. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

Store (alts.), Northwest Corner Twenty-third and Spruce streets, Philadelphia. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, G. W. Hibbs, care of architect. General alterations, bulks, plate glass, brick work, carpentry, mill work. Contract awarded to Gillette Cont. Co., 1533 Appletree street.

Warehouse and Office, Fifteenth and Belfield avenue, Philadelphia. Architect, private plans. Owner, R. A. White, Jr., 800 Drexel Building, Philadelphia. Brick, 1 story, 70x60 feet, slag roof, cement floors, metal lath, roof ventilators, rolled steel sash and skylights, electric lighting (heating and plumbing reserved). Contract awarded to Harry Gill, Jr., 2515 Germantown Avenue.

Building (alts. and add.), 3526 North Broad street, $14,000. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Howard B. Wilson, premises. Brick, 1 story, 18x16 feet, slag roof, pine floors, hot water heating, electric lighting, iron work, plate glass. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue, Philadelphia.

Simmons Building (alts. and add.), Twenty-fifth and Hunting Park avenue, Philadelphia, $250,000. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Budd Mfg. Co., Twenty-fifth and Hunting Park avenue, Philadelphia. Extensive alterations and additions. Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

Basement (alts.), 15 North Thirteenth street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owners, Chain Shirt Shop, on premises. Carpentry, mill work, painting, glazing, hollow tile, plastering. Contract awarded to Pierce-Henon Co., Juniper and Pine streets.

Bridge, over Pennsylvania R. R., at Fortieth street, Philadelphia, $179,344. Architect, private plans. Owners, Department of Public Works, City Hall, Philadelphia. Steel and concrete. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia, but not yet signed.

Garage, Northeast Corner Woodland avenue and Millville street, $26,000. Architect, private plans. Owner, Eli Mervish, 739 South Sixtieth street, Philadelphia. Brick, I story, 54x229 feet, slag roof, cement floors, electric light. Contract awarded to Terminal Const. Co., 6019 Market street.

Residence, North side Queen street, West of Henry street, $14,000. Architect, private plans. Owner, James Edwards, 3457 Queen Lane, Philadelphia. Stone, 3 stories, 41½x28½ feet, slate roof, electric lighting, hot water heating, oak and pine floors, tile work. Contract awarded to William H. Eddleman & Son, 453 Green Lane.

Residence, East side Anderson street, North of Vernon road, $12,000. Architect, private plans. Owner, Howard S. Meixner, Twenty-second and Carpenter streets, Philadelphia. Stone, 2 stories, 25x36 feet, slate roof, hot water heating, electric lighting, oak and pine floors, tile work. Contract awarded to Jacob Hansen, Fox Chase, Philadelphia.

Show Room and Garage, 447 Queen Lane, Philadelphia, $20,000. Architect, private plans. Owner, Mary A. Herring, Schuyler street, Germantown, Philadelphia. Brick, 1 story, 34x118 feet, slag roof, steam heat, electric work, cement floors. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Storage Building (add.), 2847-51 Emerald street, $15,600. Architect, private plans. Owner, Joseph A. Ries, 2847 Emerald street, Philadelphia. Brick, 2 stories, 88x50 feet, slag roof, steam heat, electric light, cement floors, steel sash. Contract awarded to Federal Cont. & Eng. Co., 1240 Reed street.

Residence, Northeast Corner Arendel and Walker streets, $6,000. Architect, private plans. Owner, George Seymour, 3311 North Second street, Philadelphia. Frame, 2 stories, 24½x33 feet, shingle roof, oak and pine floors, electric lighting. Contract awarded to A. K. Cooper, 5232 Beaumont avenue, Philadelphia.

Residence, East side Fillmore street, North of Borbeck street, $6,000. Architect, private plans. Owner, August Hornover, 55 Blake avenue, Philadelphia. Frame, 2 stories, 24x28 feet, shingle roof, hot water heating, electric lighting, tile work. Contract awarded to Evert & Goodnow, Fox Chase, Philadelphia.

Residence, East side Griscom street, South of Harrison street, $5,000. Architect, private plans. Owner, William R. Megargle, 4825 Griscom street, Philadelphia. Brick, 2 stories, 16x43 feet, slag roof, electric lighting. Contract awarded to George W. Crosley, 2264 Bridge street, Philadelphia.

Garage, 1734 North Eleventh street, Philadelphia, $15,000. Architect, private plans. Owner, Patrick Murray, 1739 North Eleventh street, Philadelphia. Brick and steel, 1 story, 54x100 feet, slag roof, steam heat, electric light, steel sash, cement floors. Contract

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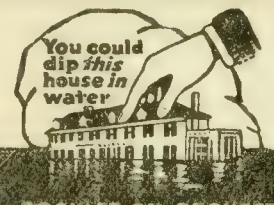
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Residence, 2615 Welsh road, Philadelphia, $7,000. Architect, private plans. Owner, Howard Enoch, 2617 Welsh road, Philadelphia. Frame, 3 stories, 24x32 feet, 14x7 feet, shingle roof, electric work. Contract awarded to Walter Freas, 9532 Bustleton avenue, Philadelphia.

Apartment (alts. and add.), 4207 Walnut street, $10,000. Architect, private plans. Owner, Rose A. Dailey, 427 State road, Cynwyd, Pa. Brick, second and third story adds., 16x34 feet, (2) fire towers, slag roof, electric lighting, oak and pine floors, tile work. Contract awared to Kier Const. Co., 1016 Franklin street, Philadelphia.

Office, Salesroom and Garage, West side Belfield avenue, East of Fifteenth street, Philadelphia, $15,000. Architect, private plans. Owner, James W. Farrell, 5647 McMahon avenue, Philadelphia. Brick, 1 story, 72x62 feet, 42x30 feet, slag roof, electric lighting, oak and pine floors, cement floors. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Residences (5), North side Ripka street, East of Pechin, $22,000. Architect, private plans. Owner, James Hyde, 307 Lyceum avenue, Philadelphia. Brick, 2 stories, 14x28 feet, 10x12 feet, slag roof, electric work. Contract awarded to James H. Boone, 555 Gerhardt street, Philadelphia.

Residence, South side Mt. Pleasant avenue, North of McCallum street, $15,000. Architect, private plans. Owner, Mrs. Helen G. C. Smith, 7043 McCallum street, Philadelphia. Stone, 3 stories, 39x25 feet, slate roof, electric lighting. Contract awarded to Jacob K. Hoff, 3531 North Seventh street, Philadelphia.

Club, 3371 Edgemont avenue, Philadelphia, $10,000. Architect, private plans. Owners, Lithuanian Beneficial Club, care of builder. Brick, 2 stories, 20x65 feet, slag roof, electric lighting. Contract awarded to S. Pietrykowski, 3074 Aramingo avenue.

Residence, North side Magee street, East of Oakley street, Philadelphia, $6,500. Architect, private plans. Owner, Robert Gamble, 908 Princeton street, Philadelphia. Frame, 3 stories, 22x29 feet, 6x8 feet, shingle roof,

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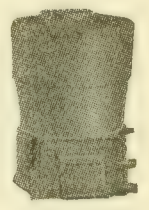
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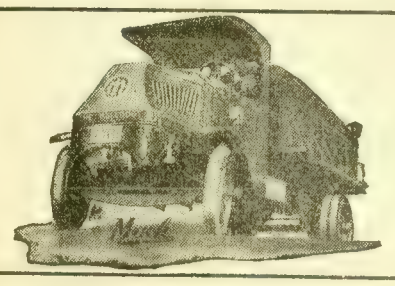
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electric light. Contract awarded to Jacob Hanson, Fox Chase, Philadelphia.

Residence and Store (alts. and add.), 1903 South Seventh street, $4,100. Architect, private plans. Owner, Rose Baronofsky, 736 South Fourth street, Philadelphia. Brick, 3 stories, 12x14 feet, slag roof, electric lighting. Contract awarded to L. Gorenstein, 616 Castrell street, Philadelphia.

Residences (2), North side Magee street, East of Hasbrook, $9,000. Architect, private plans. Owner, Herman Burkhart, 5519 North Fifth street, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, hot water heating, electric lighting, oak and pine floors. Contract awarded to Charles Sinn, 5518 North American street.

Residences (2) (add.), 6007-09 Lansdowne avenue, $8,900. Architect, private plans. Owners, Oscar and Bernard Maguire, 7107 Boyer street, Philadelphia. Brick, 2 stories, 15½x24 feet, slag roof, hot water heat, electric light. Contract awarded to A. P. Fraim, 319 Market street, Philadelphia.

Apartment (alts. and add.), 808 North Sixty-third street, Philadelphia, $8,500. Architect, private plans. Owner, Sarah I. Epler, on premises. Brick, 2 stories, 20x40 feet, general alterations. Contract awarded to Daniel Ferchtermaker, 2852 North Bailey street.

Garage, North side Crozier street, West of Bellfield avenue, $7,000. Architect, private plans. Owner, Annie Hall, 451 East Walnut Lane, Philadelphia. Brick, 1 story, 74x42 feet, slag roof, cement floors. Contract awarded to Thomas Moorhead, 453 East Walnut Lane.

Garage (add.), 4352-54 Griscom street, Philadelphia, $6,300. Architect, private plans. Owner, V. T. Bidnarek, on premises. Brick, 1 story, 40x101 feet, slag roof, cement floors, electric light. Contract awarded to S. Pietrykowski, 3074 Aramingo avenue.

Building, West side Broad street, North of Arch street, $6,000. Architect, private plans. Owners, Fidelity Insurance Co., on premises. General alterations. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Bank and Residence (add.), 2100 West Chelten avenue, $3,500. Architect, private plans. Owners, Northern Central Bank, Broad and Erie avenue, Philadelphia. Brick, 1 story, 21x19 feet, slag roof, electric light. Contract awarded to Joseph Scott, 3937 North Eighth street, Philadelphia.

Residence and Store (alts. and add.), 4900 North Thirteenth street, $2,000. Architect, private plans. Owner, Jacob Shester, 526 Wolf street, Philadelphia. Brick, 1 story, 22x40 feet, pine floors, electric light. Contract awarded to Levitt & Shester, 620 Wolf street, Philadelphia.

Residences (6), South side Benner street, East of Montague, $4,000 each. Architect, private plans. Owner, H. Walter Genthe, 9227 Frankford avenue. Brick, 2 stories, 14x36 feet, 14x25 feet, 11x11 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to A. W. J. Williams, 3011 Linden avenue.

Garage, 6441 Overbrook avenue, Philadelphia, $3,500. Architect, private plans. Owner, Olcott Payne, on premises. Brick, 1 story, 23x23 feet, slag roof, cement floors, electric light. Contract awarded to Milton W. Young, Overbrook, Pa.

Residences (2), Tabor street, West side, South of St. Vincent street, $3,500 each. Architect, private plans. Owner, Helen Gleser, 1238 North Lawrence street, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof, oak and pine floors. Contract awarded to August Gleser, 1646 North Fourth street, Philadelphia.

Residence, Southeast Corner Somerset and Salmon streets, Philadelphia, $3,500. Architect, private plans. Owner, Sol. Fued, 578 East Allegheny avenue, Philadelphia. Brick, 2 stories, 17x30 feet, 12x12 feet, slag roof, electric light. Contract awarded to D. W. Davison, 217 West Lippincott street.

Residence and Store (add.), Northwest Corner Fourth and Mifflin streets, $3,000. Architect, private plans. Owner, D. Silverstein, Southeast Corner Fourth and Mifflin streets, Philadelphia. Brick, 2 stories, 16x10 feet, slag roof, electric lighting. Contract awarded to Kople Shore, 2448 South Sixth street, Philadelphia.

Garage, 964 Herbert street, Philadelphia, $2,000. Architect, private plans. Owner, G. A. Wichan, on premises. Brick, 1 story, 16 feet 9 inches x 20 feet, slag roof, cement floors. Contract awarded to J. D. Fotheringham, 1000 Arrott street.

Residence and Store (add.), 1240 North Fiftieth street, $3,400. Architect, private plans. Owner, Raffael Tavama, on premises. Brick, third story add., 20x45 feet, slag roof, electric light. Contract awarde dto N. Nardy & Co., 1726 Sansom street, Philadelphia.

Residences (2), East side Jackson street, North of Unruh, $4,000 each. Architect, private plans. Owners, Smith & Peters, 7151 Vandyke street, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, electric lighting. Contract awarded to William Schultz, 7051 Vandyke street, Philadelphia.

Two-Family Residence (alts. and add.), 6100 Spruce street, $3,000. Architect, private plans. Owner, J. Coleman, on premises. Brick, 1 story add., 18x6 feet, slag roof, electric lighting. Contract awarded to L. Swerdloff, 228 South Fifty-ninth street, Philadelphia.

Garage (add.), 56 Armat street, Philadelphia, $6,500. Owners, Abbott's Alderney Dairies, on premises. Brick, 2 stories, 28x59 feet, slag roof, cement floors, electric light. Contract awarded to Albert Dunlap, 7223 Oak Lane, Philadelphia.

Store and Residence, 5420 Baltimore avenue, Philadelphia, $2,400. Architect, private plans. Owner, A. B. Nersesian, on premises. Brick, 1 story, 11x15 feet add., slag roof, pine floors. Contract awarded to Leon Kelvin, 5132 Walnut street, Philadelphia.

Building (add.), 5116 Market street, Philadelphia, $3,500. Architect, private plans. Owner, John H. Olen, Fifty-seventh and Master streets, Philadelphia. Brick, 2 stories, 4x26 feet 8 inches, slag roof, pine floors. Contract awarded to Harry A. Streeton, 1511 North Sixtieth street.

Garage, Northwest Corner Bingham and Bleigh streets, $2,800. Architect, private plans. Owner, William Stindle, 7404 Bingham street, Philadelphia. Brick, 1 story, 60x20 feet, slag roof, cement floors. Contract awarded to John A. McMahon, 3951 Kensington avenue.

PENNSYLVANIA
Construction News

Residence, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Walter Bock, 5543 Pearl street, Philadelphia. Frame and stucco, 3 stories, 25x34 feet, shingle roof, hardwood and pine floors, hot water heating, electric lighting. Architect taking bids.

Bungalow, Ridley Park, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Eric Jawthornthwaite, 1302 North Sixty-first street, Philadelphia. Frame and stucco, 1½ stories, 25x30 feet, shingle roof, hot water heating, hardwood floors, electric lighting. Owner and architect are ready for bids.

Garage, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, William Simpson, Simpson's Repair Shop, Ardmore avenue, Ardmore, Pa. Tapestry brick, reinforced concrete and steel, 1 story, 50x75 feet, slag roof, cement floors, hot water heating, electric lighting. Architect taking bids due October 21st.

Masonic Temple, Allentown, Pa. Architect, R. C. Schmid & Co., Chicago, Ill. Owners, Masonic Temple Association, Frederick O. Raymond, president, Masonic Temple Building, Allentown, Pa. Owners taking bids due November 1st. (Note extension.)

Two-Family Residence, Morton and Rutledge avenues, Rutledge, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, name withheld. Frame and stucco, 2½ stories, 32x56 feet, slate or shingle roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Bank and Apartment (alts.), Galitzen, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, Union Savings Trust Co., care of architects. Partitions, tile and pine floors, electric light, tile and marble work, general interior alterations, metal window guards, bank fixtures, vault, ornamental iron work. Plans in progress.

Garage, Harrisburg, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owner, B. L. Barker, 202 North Third street, Harrisburg, Pa. Fireproof, 1 story, 60x60 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash, floor hardener. Plans in progress.

Residences (26), Lancaster, Pa., $7,000 each. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, care of architect. Brick, 2½ stories, 28x36 feet, slate roof, pine floors, hot air heat, electric light. Plans in progress.

Store (add.), York, Pa. Architects, Hamme & Whitman, City Bank Building, York, Pa. Owners, York Auto Supply Co., York, Pa. Brick, 1 story. Sketches in progress.

Sunday School, Pottsville, Pa. Architects, Hamme & Whitman, City Bank Building, York, Pa. Owners, Second Presbyterian Church, care of architects. Too early for details.

Residence, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Mrs. Harry Saylor, Main street, Royersford, Pa. Brick and stone, 2 stories, 26x36 feet, oak and maple floors, pipeless heating, composition roof, tile work, (heating, plumbing and light reserved). Plans in progress.

Memorial Bridge, near Media, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Engineer, R. J. Aydlotte, Court House, Media, Pa. Owners, Delaware County Commissioners, Court House, Media, Pa. Reinforced concrete, 300x37 feet. Plans in progress.

Public Comfort Station, Central Square, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, City of Lancaster, J. E. Hetrick, chairman, Building Committee, Woolworth Building, Lancaster, Pa. Concrete, 60x60 feet, terrazzo and tile floors, electric lighting, tile and marble work, safety treads, waterproof-

ing, plumbing, concrete stairs. Architect ready for bids.

Cattle Sales Barn, New Holland, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, H. T. Sauffer, New Holland, Pa. Structural steel, 1 story, 100x160 feet, built-up roof, concrete floors, electric light, rolled steel skylights. Owner will take bids this week.

Factory, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Andes Mfg. Co., Ann and Chestnut streets, Lancaster, Pa. Brick, mill work, 1 story and basement, 30x90 feet, slag roof, mill floors, steam heat, electric light, rolled steel sash. Owner taking bids.

Residence, Duncannon, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owner, S. S. Sheller, Duncannon, Pa. Frame, 1½ stories, 28x42 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Residence, Millersburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owner, Lester Holtzman, Millersburg, Pa. Stucco, 2 stories, 28x58 feet, asphalt shingle roof, hardwood floors, vapor heat, electric light, tile work. Owner will build.

Mill (add.), Chester, Pa. Architect, private plans. Owners, Irving Worsted Company, Chester, Pa. Brick and concrete, 2 stories additional, 40x40 feet, slag roof, cement floors, steam heating, electric lighting. Owners will build.

Residence, North Wales, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, G. Herbert Jenkins, Commercial Trust Building, Philadelphia. Stone and cut stone, 2½ stories, 49x54 feet, shingle roof, oak and pine floors, metal lath, iron work, tile work (hot water heating, electric lighting and plumbing separate bids). Owner taking bids due October 21st.

High School, Bridgeport, Pa. Architect, H. Courcy Richards, 608 Chestnut street, Philadelphia. Owners, Board of Education, Bridgeport, Pa. Brick, cut stone, steel and stucco, 2½ stories, 164x69 feet, composition, tin and slag roof, alternate asbestos shingle roof, cement and pine floors, metal lath, rolled steel skylights, bond, iron stairs, iron work, waterproofing. Architect taking revised general bids due October 30th. Architect is taking new bids on mechanical equipment ,ventilating, heating, plumbing and electric work due October 30th at noon.

Factory (alts. and add.), Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, Penn Soap Co., Seymour and Prince streets, Lancaster, Pa. Mill construction and steel, 4 stories, 35x100 feet, general alterations, built-up roof, maple floors, 2 freight elevators, rolled steel sash, fire doors. Architect taking sub-bids.

Business Building, Lancaster, Pa. Architect, private plans. Owners, Raub Supply Co., Marion and Christian streets, Lancaster, Pa. Brick, steel, fireproof, 3 stories, 112x55 feet, built-up roof, hardwood floors, hot water heat, electric light, (2) freight elevators, roof ventilators, rolled steel sash. Owner ready for sub-bids.

Tea House (alts. and add.), between Middletown and Elizabethtown, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, Elizabeth Brinzer Elizabethtown, Pa. Brick, 2 stories, 16x22 feet, shingle roof, concrete floors, hot water heat, electric light. Owner will sub-let.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Owners taking bids due November 3rd at 10 A. M. at Pennsylvania State Capitol. Forms and specifications free. Plans, $2.50 per set.

Cambria County, Route 276, Washington and Cresson Townships and Lilly Borough, 15,568 feet. One course reinforced concrete. Certified check, $3,000.

Crawford County, Route 200, Sparta Township, 7,612 feet. One course reinforced concrete. Certified check, $1,500.

Warren County, Appli. 154 and 1092, Farmington and Pine Grove Townships, 23,028 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Certified check, $4,000.

Pennsylvania Contracts Awarded

Packing House, Second and Chestnut str., Reading, Pa. Architects and engineers, Himmelbach & Schlich, New York City. Owners, Central Abattoir Co., Reading, Pa. Brick and steel, 2 stories and mezzanine, 125x82 feet, Barrett roof, concrete floors, hollow tile, roof ventilators, waterproofing, iron work, rolled steel sash, hollow metal skylights. Contract awarded to Beard Const. Co., Reading, Pa.

Residence (alts. and add.) and Garage, Rydal road, Rydal, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Miss Anna W. Zimmerman, on premises. Stone, brick and steel, 2½ and 1½ stories, 28x26 feet and 40x25 feet, slate roof, cement, composition and pine floors, electric lighting, demolition, metal lath, tile work, iron work (heating and weather strips reserved). Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Knitting Mill, Pottstown, Pa. Architect, private plans. Owner, Ronald Reiss, Pottstown, Pa. Reinforced concree and steel, 3 stories, 60x120 feet, slag roof, pine floors, elevators, rolled steel sash, iron work. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Residence, Merion, Pa. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owner, Charles Sessler, 1314 Walnut street, Philadelphia. Stone, 2½ stories, 54x24 feet, wing 44x24 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile and iron work. Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Municipal Building, Chester, Pa., $34,250. Engineer, George Boutelle, City Hall, Chester, Pa. Owners, City of Chester, Pa. Face brick and tile, 1 story, 109x54 feet, steel trussed roof, concrete floors, steam heat, electric light, reinforced metal lath, waterproofing. Contract awarded to Chester Const. & Cont. Co., Chester, Pa.

Residence, Highland Farms, Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Herman Harting, 1356 Jerome street, Philadelphia. Stone and cut stone, 2½ stories, 45x29 feet, shingle roof, oak, pine and cement floors, metal lath, hot water heating, electric lighting, tile and iron work. Contract awarded to Fesmire Brothers, Glenside, Pa.

Residence, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Oliver J. Keller, 5 North Lime street, Lancaster, Pa. Brick, 2½ stories, 38x25 feet, slate roof, pine floors, electric lighting, tile work. Contract awarded to J. Stumpf & Son, Lancaster, Pa.

Store and Apartment (alts.), Derry street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, W. A. Geinert, 1201 Mulberry street, Harrisburg, Pa. Brick, 3 stories, 25x60 feet, composition roof, plate glass, fire escape. Contract awarded to M. N. Gettys, Harrisburg, Pa.

Garage, 1135 Mulberry street, Harrisburg, Pa. Architect, T. H. Hamilton, Spooner Building, Harrisburg, Pa. Owners, J. B. and H. Friedberg, Harrisburg, Pa. Steel, concrete and brick, 2 stories, 70x90 feet, slag roof, concrete floors, electric lighting. Contract awarded to C. W. Strayer, Green and Forster streets, Harrisburg, Pa.

Residence and Garage, Highland Park, Pa. Architect, Richard R. Neely ,2126 Pine street, Philadelphia. Owner, C. Keiter, care of architect. Frame and stucco, 2½ stories, 26x38 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to C. N. Rochelle, School Lane, Darby, Pa.

Residence and Garage, Wayne avenue, Bywood, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Louis Heinz, 4904 Baltimore avenue, Philadelphia. Frame and stucco, 2½ stories, 24x36 feet, garage, 10x18 feet. Contract awarded to C. N. Rochelle, School Lane, Darby, Pa.

New Jersey Construction News

Show Room and Garage (add.), 2719-21 Atlantic avenue, Atlantic City, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Carroll W. Brown, Atlantic City, N. J. Brick and steel, 1 story, 48x23 feet, slag roof, cement floors, metal lath, plate glass, metal bulks, electric lighting, fire doors. Owner is taking general bids.

Building (alts.), 2532 Pacific avenue, Atlantic City, N. J. Architect Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Joseph Martin, on premises. New brick front, oak and cement floors, metal lath, plastering, metal bulks. Plans in progress.

High School, Ocean City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owners, Ocean City School Board, care of architect. Fireproof, 3 stories, slag roof, hardwood floors, hollow tile, metal lath, electric light, tile and marble work, roof ventilators, waterproofing, dampproofing, ornamental iron work. Sketches in progress.

Apartments (8), Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, care of architect. Brick, 3 and 5 stories, 50x150 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal lath, (3) elevators, rolled steel skylights. Plans in progress.

Ford Service Station, Wildwood, N. J. Architect, Mark B. Reeves, Wildwood, N. J. Owner, Herbert S. Shaw, Wildwood, N. J. Concrete and steel, 50x100 feet. Plans in progress.

Residence, Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, M. Lawton Steedle, Riverton, N. J. Hollow tile and plaster, 2½ stories, 25x50 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

Dairy, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owners, Castania Dairies, North Broad street, Trenton, N. J. Steel, fireproof, 3 stories, 80x80 feet, concrete and slag roof, concrete floors, electric light, freight elevators, roof ventilators, rolled steel sash and skylights, fire doors, floor hardener. Plans in progress.

Apartment Houses (6), New Hampshire and Pacific avenues, Atlantic City, N. J. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, Mary Freedman, Atlan-

tic City, N. J. Brick, concrete and steel, 2 stories, 18x80 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work, cement work, will contain 12 apartments. Architect will be ready for bids in three weeks.

Residence, Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owner, J. Howard Rohan, 1305 West State street, Trenton, N. J. Frame, 2½ stories, 32x30 feet, shingle roof, hardwood floors, heating undecided, electric light. Architects ready for bids.

Residence, Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, Lester Bingley, Trenton, N. J. Frame, 2½ stories, 32x30 feet, shingle roof, hardwood floors, electric lighting. Architect ready for bids.

School, Assembly Room, Gymnasium and Swimming Pool, Trenton. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owners, Trenton School Board, R. C. Belville, secretary, Trenton. Brick, fireproof, steel, 2 stories and basement, tile roof, hardwood floors (heating, plumbing and electric work reserved), hollow tile, metal lath, safety treads, roof ventilators, waterproofing, dampproofing, tile and marble work, rolled steel skylights, iron stairs, ornamental iron work. Owner ready for bids.

Store and Apartment (alts. and add.), 21 South Carolina avenue. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner, S. Hyman, on premises. Brick, 3 stories, 72x40 feet, slag roof, pine floors, steam heat, electric light, tile work, rolled steel skylights, roof ventilators. Architect will be ready for bids in a few days.

Garage and Apartment, Atlantic City, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owner, Mr. Barfoot, 3711 Ventnor avenue, Ventnor, N. J. Brick, 3 stories, 50x150 feet, slag roof, concrete and hardwood floors, hot water heat, electric light, tile work, rolled steel skylights. Architect ready for bids.

Residence, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner, S. Fishman, 12 South South Carolina avenue, Atlantic City. Brick, 1 story, 18½x32 feet, slag roof, pine floors, hot water heat, electric light. Architect will take bide in a few days.

Masonic Temple (alts.), Gloucester, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Cloud Lodge, No. 101, W. Leroy Goodwin, on premises. General interior alterations, slag roof, composition floors, hot water heat, electric lighting, plumbing fixtures, cast stone. Architect taking sub-bids.

Apartment House, West Collingswood, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Louis Blase, care of architect. Brick, 2 stories, 40x65 feet, slag roof, pine floors, hot water heat, electric light. Owner will take sub-bids.

Warehouse (alts.), 417 Mickle street, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, G. W. Jessup, 528 Cooper street, Camden, N. J. Brick, steel, 1 story, 45x75 feet, slag roof, wood floors, steam heating, electric lighting. Owner taking bids.

Store (add.), 1232 Atlantic avenue, Atlantic City, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owners, Curries Co., 1232 Atlantic avenue, Atlantic City, N. J. Concrete and steel, 3 stories, slag roof, pine floors, electric light, general alterations. Owner will build.

Residences (52), Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Yarmov & Shenkman, Guarantee Trust Building, Atlantic City. Brick, 2 stories, 36x50 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Residence, Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Dr. S. Ironside, Haddonfield, N. J. Brick, 2 stories, 25x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architects taking bids due October 21st.

Residence (alts. and add.), Somers Point, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Mrs. R. Craighead, Craig Hall, Atlantic City, N. J. Frame, 2½ stories, 40x160 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect taking bids due October 23rd.

Parkway Garage (add.), Boston avenue, Atlantic City, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Walter Bew, Atlantic City, N. J. Brick, cut stone, reinforced concrete and steel, 1 additional story, 98x130 feet, slag roof raised, cement floors, waterproofing, terra cotta, iron work, bond, electric light, demolition. Architect taking bids due October 20th.

Commercial Building, Gibbsboro, N. J. Architect, A. P. Valentine, 212 High street, Germantown. Owners, John Lucas & Co., Inc., 322 Race street, Philadelphia. Brick and steel, 2 stories, 60x100 feet ,slag roof, cement floors. Owners taking bids due October 21st.

New Jersey Contracts Awarded

Bank Building, Atlantic City, N. J. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Equitable Trust Co., Atlantic City, N. J. Brick, granite, limestone and steel, 2 stories and bsement, 48x96 feet, slag roof, cork, maple and cement floors, metal lath, iron work, tile and marble work, rolled steel sash and skylights. Contract awarded to Frank V. Warren, 132 South Seventeenth street, Philadelphia.

Bank Building (alts. and add.), Haddon and Kaighn avenues, Camden, N. J. Architect, private plans. Owners, Parkside Trust Co., on premises. Brick, 1 story, 34x21 feet, slag roof, cement and pine floors, demolition, iron work (heating and finished hardware reserved), electric lighting. Contract awarded to Andrew White, 1139 Sheridan street, Camden, N. J.

Residence, Maple avenue, Trenton, N. J., $6,000. Architect, private plans. Owner, Leslie Harris, 69 Maple avenue, Trenton, N. J. Frame, 2 stories, 24x28 feet, slate roof, pine floors, electric lighting. Contract awarded to W. H. Loose, 308 Logan street, Trenton, N. J.

Apartment, North Providence Terrace, Atlantic City, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owner, George C. Felker, 17 South Kentucky avenue, Atlantic City. Brick, hollow tile, 3 stories, 73x34 feet, slag roof, pine floors, hot water heat, electric light, tile and marble work. Contract awarded to Philip G. Hannum, Atlantic City, N. J.

Residence, West Collingswood, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Graham Lucas, care of architect. Frame, 1½ stories, 24x40 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to H. B. Howey, 413 Bailey street, Camden, N. J.

Bank (alts. and add.), Collingswood, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Collingswood Trust Co., Dr. T. W. Haddon, Collingswood. Office partitions, interior addition, composition floors, electric lighting. Contract awarded to R. A. Scarborough, Collingswood, N. J.

Stores and Apartments, Pacific avenue, Wildwood, N. J. Architect, Mark B. Reeves, Wildwood, N. J. Owner, Louis Staller, Wildwood, N. J. Brick, three stories, 60x80 feet, tin roof, wood floors, hot water heating, electric lighting. Contract awarded to Frank E. Walters, Wildwood, N. J.

Store and Apartments, Pacific avenue, Wildwood, N. J., $16,000. Architect, Mark B. Reeves, Wildwood, N. J. Owner, Walter M. Beers, Wildwood, N. J. Brick, 3 stories, 20x90 feet, slag roof, wood floors, electric lighting (hot water heating reserved). Contract awarded to Bond & Witte, Wildwood, N. J.

Miscellaneous Construction News

Fire House and Stores, Oak Grove, Delaware. Architect, E. L. Rice, 815 Market street, Wilmington, Del. Owners, Elsmere Fire Engine Co., Oak Grove, Del., care of R. W. Crook, Oak Grove, Del. Frame, 2 stories, 25½x64 feet, composition shingle roof, concrete and pine floors, hot water heat, electric light. Owner ready for bids.

Bank and Office (alts.), Twenty-first and Market streets, Wilmington. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Wilmington-Brandywine Bank, care of architects. General interior alterations, hardwood floors, tile and marble work. Contract awarded to Samuel Pierce, Wilmington, Del.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 6, 1922. Sealed Proposals will be opened i nthis office at 3 P. M., November 1, 1922, for construction (including mechanical equipment) of a one-story laundry building covering 5,130 square feet, for the United States Veterans' Hospital at the Bronx, New York, N. Y., to be completed within four months from award of contract. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. Before drawings and specifications are forwarded to prospective bidders, applicants must cite at least one specific instance where a record for speed has been established on a job of equivalent magnitude, giving date of award of contract, amount of contract, specified time for completion and date of actual completion. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

You know what propaganda is, don't you? You know, too, how effective a weapon it is, if used properly, don't you? Well, advertising—honest, fair advertising—is the best propaganda we know of. Join the propagandists now! Advertise in the "Builders' Guide."

(Continued from page 664)

of millions of dollars lost by the railroad and mine operators through the shut down; of the hundreds of millions lost to the workers themselves through their selective idleness; but they can give no estimate of the other hundreds of millions of dollars lost to business in general by the economic setback. Had not the country been thrown into these disturbing conflicts, the factories throughout the land would today be in a position tremendously better than they were a year ago; and would be operating at a speed that we have not seen for two or three years.

Now Ready for Increase

"These statements are made advisedly and in view of recent reports received by the National Association of Manufacturers on the employment outlook for the fall and winter. These reports show that *practically every large industrial district in the country was, and undoubtedly still is, planning to make considerable extensions of its forces* in the fall that would put hundreds of thousands of men back to work and add several billions of dollars to the payrolls of the country. The two outstanding strikes not only delayed these extensions, but undoubtedly have made it impossible or impracticable for many of these industries to increase their forces to the full extent they had planned. The processes of reconstruction are much slower than the processes of destruction and it is problematical just how much of a throwback on industry has been occasioned by labor itself.

"Governmental reports show that the production of raw products has more than come back to its own. Our farms have produced more than $1,000,000,000 worth of produce above last year's record; wool production has increased and there are further fine reports on the production of iron. Industrial production would now be keeping up with this magnicent record had we not had the bickerings of the last few months to contend with; but even in spite of these drawbacks, *I am confident that the larger part of our industries will be found to be carrying out their program for extensions almost as fully as they had planned before*, and that our industrial recovery will be speedier than some have thought. The reports we have received on the employment situation show that about six weeks ago practically every basic industry was making arrangements to take on more men at the beginning of the late summer and fall business. The greater part of these extensions naturally were modest and meant probably the additions of 10% to 15% in the crews. But in some particular districts and particular industries, the organizations were preparing to make large additions, while some were preparing to double their forces. There were unusually promising outlooks for the iron and steel industries, building, automobiles, electrical machinery and tools, leather products, lumber products, textiles, paper and metal goods. The miscellaneous industries gave an excellent indication."

The following is a tabular summay of the reports received by the association:

Iron and Steel

	Percentage of reports indicating an increase in working forces
Pennsylvania, Massachusetts and Wisconsin	85
Ohio and New Jersey	80
Indiana, New York, Connecticut, Illinois and Michigan	75
Kentucky, Tennessee, Missouri, Rhode Island and Virginia	100

Machinery and Tools

Maryland, Wisconsin, Delaware and Indiana	100
Connecticut	90
(Some plants will double their forces.)	
New Jersey	85
Illinois	75
Massachusetts Pennsylvania and Rhode Island	65
Tennessee, New York, Missouri, and Iowa	50

Textiles

Massachusetts, New Jersey, Pennsylvania and New York	65
Tennessee, Wisconsin and Indiana	85
Connecticut	50
Rhode Island	45
Maryland, Minnesota, Virginia, Michigan, Missouri, Illinois, Georgia, and Kentucky	100

Building

New York	90
Ohio and Pennsylvania	80
Illinois	75
Missouri and Iowa	100
Massachusetts and Connectiuct	60
New Jersey	50

Automobiles

Indiana, Massachusetts, Iowa, Pennsylvania, Rhode Island and New Hampshire	100
Illinois	80
Connecticut	75
New York	70
Ohio	65

Metal Goods

Illinois and Connecticut	75
New York and Ohio	65
New Jersey, Missouri, Michigan	50
Massachusetts, Pennsylvania, Rhode Island and Wisconsin	100

Paper

Illinois and New Jersey	100
Ohio	85
Connecticut and Wisconsin	80
New York	65
Michigan and Massachusetts	60
Indiana	65

Lumber and Woodworking

Illinois, Iowa, Tennessee, Wisconsin, Louisiana, Nebraska and Washington	100
Ohio, Indiana and Michigan	80
New York and Pennsylvania	75

Leather

Six States (not specified)	100
Pennsylvania	65
Maine, New Jersey, New York and Ohio	50
Massachusetts	55

Electrical

Connecticut, Illinois, Missouri, New Jersey, Pennsylvania and Michigan	100
New York and Ohio	65
Massachusetts	85

Miscellaneous Industries

Maryland, Minnesota, Delaware and Kentucky	100
Illinois	80
New Jersey, Tennessee, Rhode Island, Michigan, Wisconsin	85
New York, Massachusetts, Pennsylvania	75
Connecticut, Missouri, Indiana and Iowa	50

Keen Competition Coming

"I believe, with the strikes now in process of settlement, that we have come to the point where we need more than peace in our industrial fabric" Mr. Edgerton continues. "We need peace in our legislative fabric just as well—peace with Congress on our taxation problems, and on our tariff problems. The manufacturers are affected by these questions more than any one other class. Politicians, in their ignorance of the action and reaction of economic law, cannot be expected to treat these matters wisely. If the problems are left to the well-organized management of other interests, the consequences can easily be imagined. The time, therefore, has arrived when the manufacturers must come out from their selfish isolation and through the submerging of their pride and individual opinion, when necessary to united action and through energetic co-operation, solidify themselves into a constructive working force for the solution of the complex and stupendous problems that are in the way of our progress.

"In my opinion, we are entering upon the keenest competition era in all history. The economic advantage which

America now has is offset by certain other advantages possessed by our chief competitor nations. Under the discriminating tutelage of mankind's most efficient schoolmaster, misfortune, our European neighbors have learned lessons in suffering, endurance, patience, work, thrift and economy which equip them in an essential manner for a race to the goal of commercial and industrial supremacy.

"To maintain the lead which we now have in that race, we must not only increase our individual efforts, but must resolve to hold our place by a return to the same spirit of thrift, industry and determination by which our forefathers gave us this magnificient land in which to live."—*From the Industrial Digest.*

OPPONENTS of the *American Plan* contend that the worker is less likely to get a square deal than under "union" regime; that the unions are necessary to obtain fairness.

The following data from the *Architect and Engineer* seems to refute these contentions:

Comparative Wage Conditions in the Building Trades June 1, 1922

Bricklayers—San Francisco, $9.00; Los Angeles, $10.00; Salt Lake, $9.00; Chicago, $8.80; Minneapolis, $8.80; Phila delphia, $7.20; Indianapolis, $9.20, and Pittsburgh, $10.40.

Carpenters—San Francisco, $8.00; Los Angeles, $8.00; Salt Lake, $7.20; Chicago, (open) $8.00; Minneapolis, $6.40; Philadelphia, $10.00; Indianapolis, 7.40, and Pittsburgh, $9.00.

Cement Finishers—San Francisco, $8.00; Los Angeles, $8.00; Salt Lake, $7.00; Chicago, $6.80; Minneapolis, 6.40; Philadelphia, $6.40, Indianapolis, $7.20, and Pittsburgh, $7.00.

Electricians—San Francisco, $8.00; Los Angeles, $8.00; Salt Lake, $7.20; Chicago, $8.80; Minneapolis, $6.40; Philadelphia, $7.20; Indianapolis, $8.00, and Pittsburgh, $9.00.

Lathers—San Francisco, $8.00; Los Angeles, $8.00; Salt Lake, $8.00; Chicago, $8.00; Minneapolis, $6.40; Philadelphia, $7.20; Indianapolis, $9.00, and Pittsburgh, $9.00.

Painters—San Francisco, $8.00; Los Angeles, $7.00; Salt Lake, $7.20; Chicago, $10.00; Minneapolis, $6.40; Philadelphia, $6.40; Indianapolis, $7.20, and Pittsburgh, $8.00.

Plasterers—San Francisco, $10.00; Los Angeles, Ave. 12 10-14; Salt Lake, $9.00; Chicago, (open) $10.00; Minneapolis, $8.00; Philadelphia, Ave. 9 8-10; Indianapolis, $9.00, and Pittsburgh, $9.00.

Plumbers—San Francisco, $9.00; Los Angeles, $9.00; Salt Lake, $8.00; Chicago, $7.00; Minneapolis, $6.40; Philadelphia, $7.20; Indianapolis, $9.00, and Pittsburgh, $9.00.

Sheetmetal Workers—San Francisco, $8.50; Los Angeles, $8.; Salt Lake, $7.20; Chicago, (open) 7.60; Minneapolis, $6.40; Philadelphia, $7.20; Indianapolis, $7.36, and Pittsburgh, $8.00.

Structural Steel—San Francisco, $9.00; Los Angeles, $6.40; Salt Lake, $7.20; Chicago, $8.40; Minneapois, $6.40; Philadelphia, $7.20; Indianapolis, $9.00; and Pittsburgh, $8.00.

Hodcarriers-Bricklayers—San Francisco, $7.00; Los Angeles, $6.00; Salt Lake, 6-7; Chicago, (open) $6.30; Minneapolis, $5.20; Philadelphia, $6.00; Indianapolis, $5.60, and Pittsburgh, (open) $5.60.

Laborers—B. T.—San Francisco, $5.00; Los Angeles, $4.00; Salt Lake, 3-4; Chicago, $5.80; Minneapolis, $4.00; Philadelphia, $3.50; Indianapolis, $2.40; and Pittsburgh, (open) $2.40.

Average Wage—San Francisco, $8.12; Los Angeles, $7.86; Salt Lake, $7.18; Chicago, $7.77; Minneapolis, $6.36; Philadelphia, 7.04; Indianapolis, $7.53, and Pittsburgh, $7.86.

The average wage of the eight representative cities is $7.49.

From the above data, which represents wages paid in the primary building trade crafts in the principal cities of the United States on June 1, 1922, it can be observed that the average wages paid San Francisco building trade mechanics are better than any other city compared. This high wage scale has been guaranteed as a minimum during a year of readjustment, notwithstanding the fact that it was a period of falling prices. Work has been more plentiful, and the building trade mechanic is better off than he has been for many years, as his average annual income is more in actual money and it has more relative buying power. The American Plan is offering no restrictions as to who shall work, as long as he will produce; it is guaranteeing high wages, and the building trade mechanic has more work he can do.

Note—Data from wage scales obtained from the Builders' Exchanges and Employers' Associations of the various cities. "Open" means average wage paid craft. No agreed wage scale.

When you stop to consider that the Guide **reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.**

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

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Massiah, Frederick..Juniper and Cypress Sts., Phila.

CENTRIFUGAL PUMPS.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

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Pearce Fireproof Co.....1345 Arch St., Phila.

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Massiah, Frederick..Juniper and Cypress Sts., Phila.

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Contract Waterproofing Co. ..Harrison Bldg., Phila.
Gibson, Thomas F. .....Franklin Trust Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

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Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

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Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

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Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

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Fleck Bros. .....44 N. 5th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

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Riddle, Wm. H. .....1110 S. 31st St., Phila.

HEATERS (Hot Water Service).
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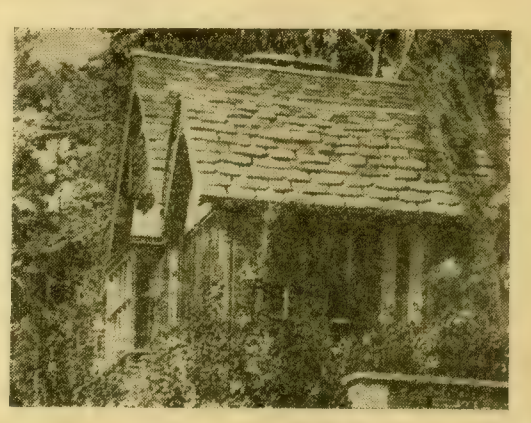
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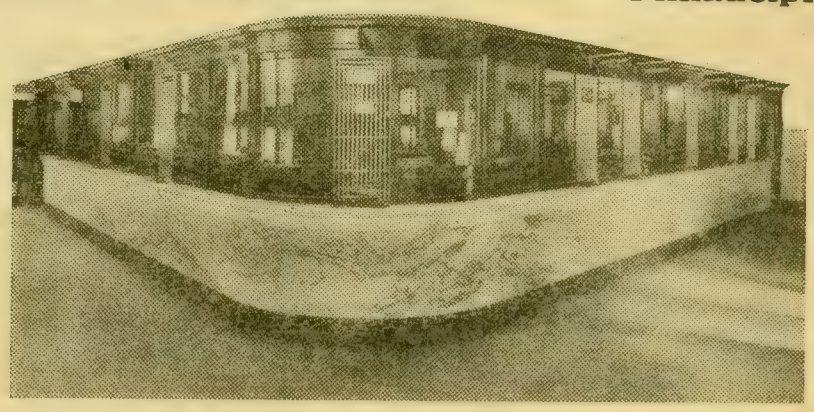
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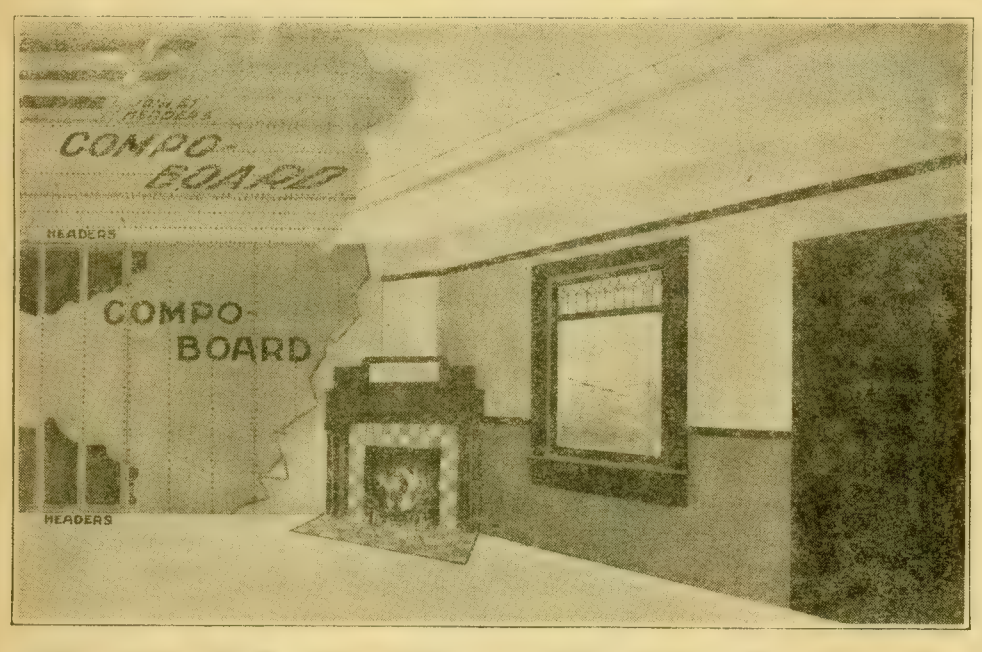
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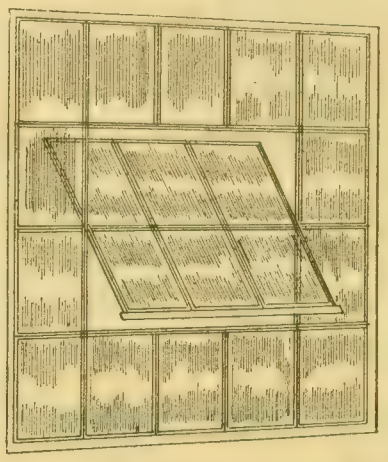
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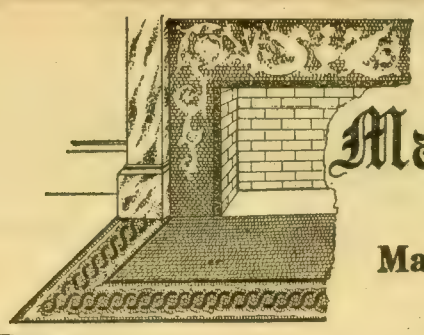
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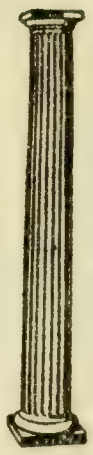
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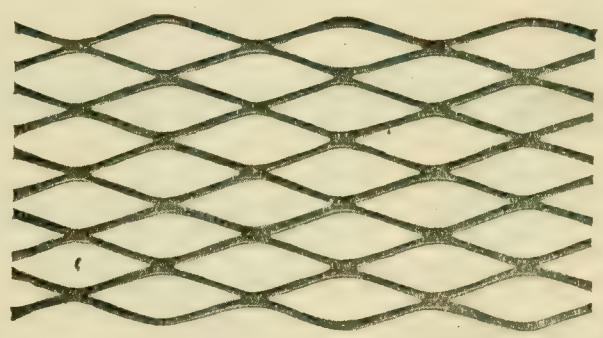


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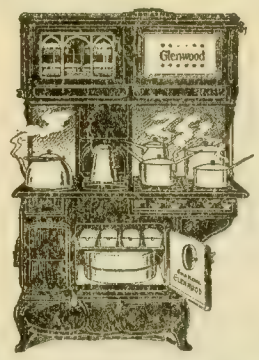
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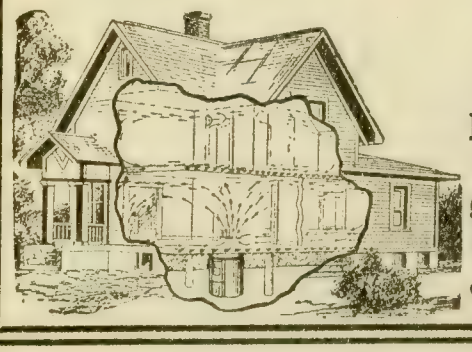
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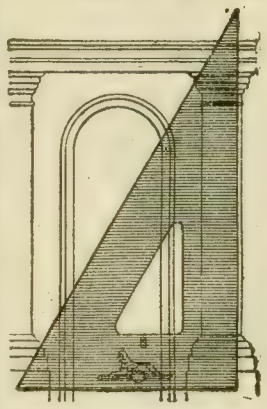
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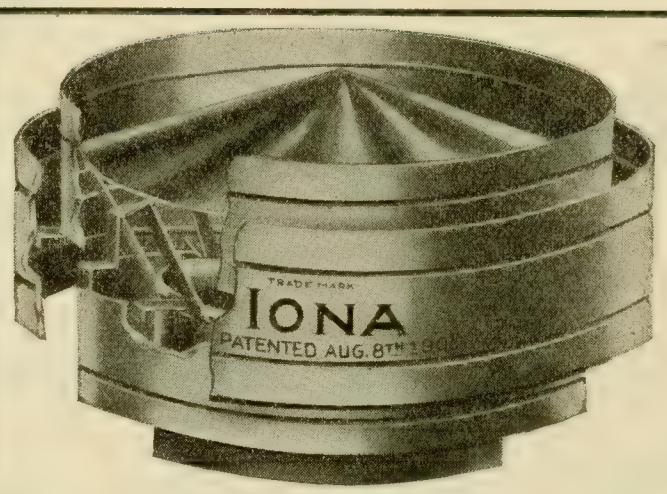
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 43

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October 25, 1922

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As The Editor Sees It

THE dearth of skilled mechanics has been a great handicap to the Building Industry during the past year or more. The difficulty of obtaining sufficient apprentices for the various trades has been set forth and discussed in the GUIDE at various times. Of course the contractor, the material dealer and those most intimately associated with building, feel most keenly and quickly the insufficient supply of skilled labor. However, as the *American Contractor* sees it, apprenticeship is a public problem, for says that paper:

Chamber of commerce should be particularly interested in helping put through a program for the training of apprentices. The one and only ultimately proper agency to supervise this training is the state or perhaps the municipality. Surely through public institutions is found the proper channel for the training of youth. If contractors spend money in maintaining an apprentice school, it is casting bread upon the waters with a good chance for none of the good results being washed back to the donors. The apprentice is not a peon and upon completing his program to his or to others' satisfaction, he is quite likely to accept employment elsewhere than where he received his training. Further, there is a strong prejudice hard to overcome that when a group of association of employers trains apprentices it is doing so with the intent of "busting unions." The best way to keep unionism strong is to keep right on giving the impression that force or policy is being used to break them down. There is nothing so conducive to solidarity as outside opposition.

The continuation school is not unknown in the United States, but it is too little known and too little made use of. We have a public system of education. The point is to make this system cater to present needs. This means that some boys should be trained for the useful and honorable profession of bricklaying. The contractor can do his bit to bring a continuation school to his city. He can do his bit through his association for effective state laws on the subject of such schools. But the contractor can not do all the work and spend all the money. The material dealers and producers must aid the contractor in securing apprentices, else their market dwindles. Civic bodies such as chambers of commerce should be aroused to the point of keen interest in this critical problem.

OUR ACHIEVEMENTS

The United States—The World's Chief Burner

To what shall we attribute our vast increase of national fire waste? Surely not to a lack of knowledge of the construction of fireproof buildings; architects, contractors, building men everywhere are advocating and explaining the nature and uses of building materials and methods which tend to check the inroads of the red demon, Fire. Shall we state that the American people are indifferent to their enormous fire losses, or, shall we put it that we are gamblers, willing to take a chance that our buildings will escape? Indeed, one is almost led to believe that the latter holds true, for the average man, when broached upon the possibilities of his home catching fire, makes light of it.

But, question that same American citizen upon the possibilities of saving his family in case the seemingly incredible should happen that his home would be burned to the ground. You will find that "he hadn't thought of that!" Also observe his attitude toward a man who knowingly builds a structure so susceptible to flames that but a spark is required to make it a vast bonfire, and then forces his wife and children to live in it! Criminal carelessness is a disagreeable name for such an action, but what would a person call it—thoughtlessness?

The law recognizes no such term when dealing with its offenders. We send our children to schools that must be of fireproof construction, our wives to resorts where the hotels are built under the supervision of fire inspectors; yet require them to live in a home that would disgracefully fail under the tests of the fire inspectors.

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The European Situation as Viewed by Benjamin Franklin

It appears that even as early as the day of Benjamin Franklin, the methods of European fire-restraint construction were noteworthy, for that eminent philosopher and shrewd observer, in writing from London to a friend in America, had the following to say:

"It appears to me of great importance to build our dwelling houses, if we can, in a manner more secure from danger by fire. We scarcely ever hear of fire in Paris. When I was there, I took particular notice of the construction of their houses and I did not see one of them that could well be burned. The roofs are of slate or tile, the walls are of stone, the walls generally lined with stucco or plaster instead of wainscot. The floors are of stucco or of those square tiles burned brown, or of flagstone or of marble. The stairs, too, at Paris are either stone or brick with only a wooden edge or corner for the step, so that on the whole, though the Parisians commonly burn wood in their chimneys, a more dangerous kind of fuel than that used here, yet their houses escape etxremely well, as there is little in a room that can be consumed by fire except the furniture, whereas in London, perhaps scarcely a year passes in which half a million of property and many lives are not lost by this destructive element. Of late, indeed, they begin here to leave off wainscoting their rooms, and instead of it cover the walls with stucco, often formed into panels like wainscot, which, being painted, is very strong and warm. Stone staircases, too, with iron rails, grow more and more into fashion here."

The people of Europe, due to the influence of an older civilization, are naturally more cautious and saving. In a land where fortunes are not easily made and where each generation tries to add its mite to the savings of the past, it is readily understandable that a man contemplating the erection of a home, does everything in his power to safeguard his slowly acquired fortune.

Another fact of great significance. The law in the majority of the European countries deals stringently with owners of buildings wherein a fire originates. Through a well organized and efficient system of fire marshals, each fire is strictly investigated and the guilty parties punished for their part in it, even though it be through negligence or ignorance.

Would You Report a Murder?

When one realizes that the majority of the fires caused in the United States are preventable, it would seem that the American people are guilty of countenancing criminal negligence. We raise our hands in righteous indignation against the thief, the footpad and the burglar; we shudder when reading of the outrageous action of the depraved murderer of women or children. What then should be our attitude toward the man who lightly scoffs at fire and fails to use a modicum of care in defense of that fieend, Fire—the greatest murderer and pillager of our country?

More Thought Must Be Given to Fire-Retardant Construction

Let us discuss the phase of constructing our buildings so that they may be as fireproof as possible. Of course, in modern building there is no construction that is absolutely fireproof, and when we speak of a building as being such, we mean that it will retard the progress of flames for a certain length of time and is not conducive to a general conflagration.

To these buildings should be added the terms "death proof" and "conflagration proof."

Fire must be destroyed in its incipiency and buildings should be so constructed that a fire will be confined to the place of its origin until the arrival of the fire department. Means of safety, both to persons and property, must be assured by making impossible the instant conversion of elevator shafts and stairways into flues for the flames, and by making impossible the rapid spread of flames from room to room and floor to floor.

Although the great fires of this country have occurred, for the most part, in places of manufacture, theatres and large public buildings of one kind or another, nevertheless the majority of all the fires and a very large portion of the fire losses belong to the dwelling house.

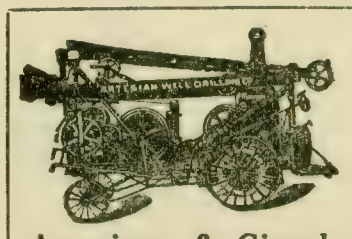
Who Is to Blame?

There is a fundamental mistake which has been the cause of much loss and suffering in this country, and which arises from a wrong idea as to the construction of the small house. If we estimated the number of buildings in the United States as twelve million, it is safe to say that of this number probably eleven millions have been built in entire disregard of the combustible nature and arrangement of their materials.

Because plaster is noninflammable, the average man presumes that it is an effective retardant to fire and there his reasoning stops. But, suppose a spark lodges in back of that plaster which is only natural—for when the heat dries out the plaster, it falls from its base—what will then happen? In the majority of structures, where metal lath and fire stops have not been used, the walls are nothing but a series of connected flues whose chief function in the event of fire is to quickly conduct the flames to every part of the

(Continued on Page 690)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Hospital Buildings, Broad and Ontario streets, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owners, Samaritan Hospital, on premises. Brick, stone, steel and concrete. Plans in progress. Architect will be ready for bids in one month.

Garage, Broad and Ontario streets, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owners, Samaritan Hospital, on premises. Brick, steel and concrete, 2 stories, 28x22 feet, slag roof, cement floors. Plans about completed. Architect will be ready for bids inone week.

Residence, Roumfort avenue near Ardsley street, Chestnut Hill. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress.

Parochial School, Forty-seventh street above Springfield avenue, Philadelphia. Architects, Henry D. Dagit Sons & Co., 34 South Seventeenth street, Philadelphia. Owners, St. Francis de Sales R. C. Church, Rt. Rev. M. J. Crane, Forty-seventh and Springfield avenue, Philadelphia. Stone and steel, 3 stories. Plans in progress. Will be ready for bids in two months.

Boarding Home for Working Girls (alts. and add.), Hancock above Diamond street, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Michael's Roman Catholic Church, St. Edwards' Roman Catholic Church, and Roman Catholic Church of the Visitation, Philadelphia. General alterations and additions. Plans in progress. Architect will be ready for bids in ten days.

Store and Residence, 904 Christian street, Philadelphia, $10,000. Architect, D. J. Pappano, Thirteenth and Reed streets, Philadelphia. Owner, Nicolas Marella, on premises. Brick and steel, 3 stories, irregular, slag roof, pine floors, electric light, marble work, metal bulks (heating reserved). Plans completed. Will take bids January, 1923.

Building, Broad and Callowhill streets, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Philadelphia Inquirer, 1109 Market street, Philadelphia. Brick, stone, steel and concrete. Architects selected. Plans in progress.

Twin Residences (10), Cliveden avenue and Magnolia street, Philadelphia. Architect, Frank V. Nickels, 225 South Sydenham street, Philadelphia. Owner, A. Stanley Ulrich, 1523 Snyder avenue, Philadelphia. Stone, 2½ stories. Preliminary plans in progress. Will take bids in spring of 1923.

Store and Rooming House, Northeast Corner Seventh and Noble streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Henry Sandry, 416 Spruce street, Philadelphia. Brick, 3 stories, 18x63 feet, slag roof, pine floors, hot water heating, electric light, rolled steel skylights, flush bulks. Plans completed. Owner will take bids in two months.

Store and Apartments, 41 North Sixtieth street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, J. Goldfarb, 822 South Fifth street, Philadelphia. Brick, 2 stories, 16x85 feet, slag roof, hardwood, pine and composition floors, hot water heat, electric light, tile and marble work, rolled steel skylights, store fixtures, metal bulks. Owner is taking bids.

Mill Creek Playground (alts. and development), Forty-seventh to Forty-eighth, Brown to Aspen streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, City Hall, Philadelphia. Concrete retaining walls and steps, demolition, painting, iron fences. Owners will take bids in a few days.

Athletic Recreation Centre (improvement and development), Twenty-sixth and Jefferson streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, City Hall, Philadelphia. Shelter building, 1 story, 15x30 feet, shingle roof, cement floor, demolition, bond, iron work. Owners will take bids in a few days.

Operation of Residences, Tenth and Olney avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Charles Mahon, 5530 North Fifth street, Philadelphia. Brick, stone and stucco, 2 stories, 16x44 feet, slag and tin roof, hot water heating, electric lighting, tile work, garages in basements. Owner is taking subbids.

Apartment House (alts.), 4820 Regent street, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owner, Dr. H. E. French, 4822 Regent street, Philadelphia. Alterations, (3) apartments' roof repairs, hardwood floors, plastering, metal lath, dumb waiter, painting, hot water heating, electric lighting. Architect taking subbids.

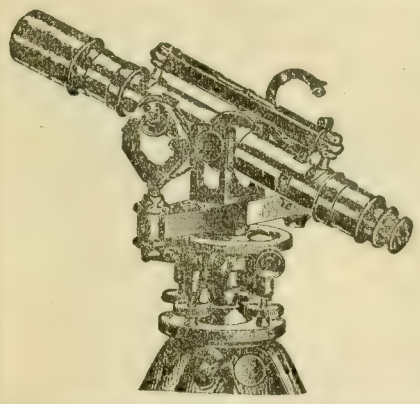
Residences (3 pairs twin), Germantown, Philadelphia. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, Samuel Golden, care of architect. Stone, 3 stories, 26x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work, cement work. Architect will take bids (sub) in two weeks.

Garage, 6429 Drexel road, Philadelphia. Architect, private plans. Owner, P. M. Sax, 6429 Drexel road, Philadelphia. Stone, 1 story, 22x22 feet, shingle roof, cement floor, steam heat, electric lighting. Owner will build.

Athletic Recreation Centre, Twenty-sixth and Master streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, B. H. Warburton, 595 City Hall, Philadelphia. Owners taking bids due October 31st at noon.

Paving, etc., Philadelphia. Owners, Department of Public Works, Bureau of Highways, Frank H. Caven, Director, 232 City Hall, Philadelphia. Asphalt paving, vitrified block paving, grading and asphalt paving, crushed stone, corrugated iron pipe, radial brick chimney. Owners taking bids due October 31st at noon. Inquire Room 232.

Banking Room, Germantown and Roberts avenue, Germantown, Philadelphia. Architects, Simons, Brittain & English, 336 Fourth avenue, New York City, and 929 Chestnut street, Philadelphia. Owners, Wayne Junction Trust Co., care of Mr. Scanlan, on premises. Brick, cut stone and steel, 3 stories, 110x40 feet, composition roof, cement and maple floors, hollow tile, metal lath and window guards, iron work, bond, kalamein doors, rolled steel sash, tile and marble work, steam heat, electric light. Owners taking revised bids due October 30th.



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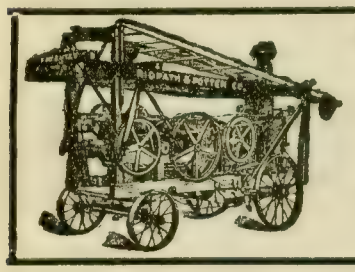
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Building (alts. and add.) to Apartments, 3622-28 North Sixteenth street. Architect, C. C. Schweiker, 44 North Felton street, Philadelphia. Owners, Estate of August Mecky, Seventeenth and Allegheny avenue. Brick, 3 stories, 8x12 feet, slag roof, oak and pine floors, steam heating, electric lighting, tile work. Owners taking bids due October 28th.

Building, Fifth and Willow streets, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Paper Manufacturers' Co., 526 Cherry street, Philadelphia. Reinforced concrete, steel and brick, 6 stories and basement, 120x180 feet. Architect taking bids due October 26th at noon.

Store and Apartments (alts. and add.), Southeast Corner Fifty-fifth and Chester avenue. Architects, Charles Bolton & Son, Witherspoon Building, Philadelphia. Owner, Nelson Fry, Nineteenth and Arch streets, Philadelphia. Brick and cut stone, 2 stories and basement, 19x19 feet, slag roof, pine floors, iron work, demolition. Architects taking bids due October 28th.

Building, 411-13 North Fourth street, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Messiah Hebrew Lutheran Mission, care of Trustees for Association of Jewish Missions, care of architect. Brick work, carpentry, mill work, composition floors, metal lath, plastering, iron work, demolitioin, steam heating, electric lighting, plumbing. Architect taking bids due October 27th.

Store and Office (alts. and add.), 3134-36 Kensington avenue, $15,000. Architect, private plans. Owners, F. W. Woolworth Co., on premises. Brick, second story add., 17x35 feet, slag roof, steam heat, electric light. Owner will build.

Residences (33), Lebanon avenue and Flanders street, $120,000. Architect, private plans. Owners, John McGinty & Son, Sixty-seventh and Lebanon avenue, Philadelphia. Brick, 2 stories, 17x32 feet, 16x32 feet, slag roof, electric lighting. Owners will build.

Residences (25), Florence avenue, Fifty-fifth to Fifty-sixth streets, $113,500. Owner, R. H. Pugh, Ridge and Girard avenues, Philadelphia. Brick, 2 stories, 18x32 feet, 17x37 feet, electric lighting, slag roof, oak and pine floors. Owner will build.

Residences (53), Fifty-sixth and Haddington streets, $266,000. Owner, E. J. Rinck, 1116 South Fifty-fourth street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x8 feet, 15x39 feet, slag roof, electric lighting, oak and pine floors. Owner will build.

Residence, Southwest Corner Fifth and Chelten avenue, $9,000. Architect, private plans. Owner, Louis Braening, 4933 North Fifth street, Philadelphia. Brick, 1 story, 42½x37 feet, 32x18 feet, slag roof, hot water heat, electric light, tile work. Owner will build.

Residences and Garages (16), Fifty-third and Diamond streets. Architect, private plans. Owner, Daniel J. Hogan, 6043 Overbrook avenue, Philadelphia. Brick, 2 stories, 16x41 feet, slag roof, electric light, hardwood and cement floors, electric light. Owner will build.

Residences and Garages (19), Fifth street, Champlost avenue and Widener Place, Philadelphia, $106,200. Architect, private plans. Owner, George Schwinn, 1220 Lindley avenue, Philadelphia. Brick, 2 stories, 16x46 feet and 16x30 feet, 10x10 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

Residences (25) and Stores and Residences (3), Rockland, Ella and B streets, Philadelphia, $100,500. Owners, Izenberg & Leibman, Seventh and Louden streets, Philadelphia. Brick, 2 stories, 16x49 feet, 15x29 feet, 11x9 feet, 15x38 feet and 15x29 feet, 11x9 feet, slag roof, electric lighting. Owners will build.

Residences (8), Sixty-fifth and Sixty-fourth and Lansdowne avenue, $60,000. Architect, private plans. Owners, Fulton & Benham, 317 South Fifty-eighth street, Philadelphia. Brick, 2 stories, 16x31 feet, 12x11 feet, 16x44 feet and 19x60 feet, slag roof, oak and pine floors. Owners will build.

Residences and Stores (8), Germantown avenue and Duval street, $32,500. Architect, private plans. Owners, Fishman & Ford, 2011 South Fifth street, Philadelphia. Brick, 2 stories, 23x21 feet, 13x20 feet, 15½x46 feet, 28x14 feet and 15½x36½ feet, 11x23½ feet, slag roof, electric lighting, pine floors. Owners will build.

Residences and Garages (20), Limekiln pike, South of Eastburn, $5,500 each. Architect, private plans. Owner, George Schwingle, Fifth and Lycoming streets. Brick, 2 stories, 15x24 feet, 12x14 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (2), South side Eastwick avenue, East of Eighty-third, $3,100 each. Architect, private plans. Owner, S. Triester, Eighty-third and Eastwick avenue, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, hot water heat, electric lighting. Owner will build.

Platform and Office (add.), 867 North Fourth street, Philadelphia, $3,000. Owners, Colonial Ice Cream Co., on premises. Brick, 2 stories, 24x32 feet, slag roof, pine floors, electric work. Owners will build.

Residences (4), South side Duncan street, North of Pearce, $17,100. Architect, private plans. Owner, C. Takowicz, 4655 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residence, Southeast Corner Fairhill street and Chelten avenue, $10,000. Architect, private plans. Owner, Louis Braennig, Jr., 4933 North Fifth street, Philadelphia. Brick, 2 stories, 28½x40½ feet, hot water heating, electric lighting, tile work. Owner will build.

Residence, Store and Garage, Southwest Corner Limekiln and Eastburn, $7,500. Architect, private plans. Owner, George Schwingle, Fifth and Lycoming avenue, Philadelphia. Brick, 3 stories, 31x16 feet, 16x22 feet, slag roof, hot water heat, electric lighting. Owner will build.

Residence, Store and Garage, 2411 North Broad street, Philadelphia, $4,000. Architect, private plans. Owner, Dr. A. Rosenblatt, 2816 Germantown avenue, Philadelphia. General alterations to store and residence, new garage. Owner will build.

Garage, Southwest Corner Alden and Cherry streets, Philadelphia, $2,800. Architect, private plans. Owner, Percy L. Baxler, 5727 Race street, Philadelphia. Brick, 1 story, 20x102 feet, slag roof, cement floors, electric work. Owner will build.

Residences (2), West side Claridge, North of St. Vincent, $4,500 each. Architect, private plans. Owner, Henry Perlman, 1225 Cottman street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (2), 7708-10 Chelwynde street, Philadelphia, $3,000. Architect, private plans. Owner, James Warner, 7712 Chelwynde avenue, Philadelphia. Brick, 2 stories, 16x36 feet, hot water heat, electric light, slag roof, pine floors. Owner will build.

Residences (2), 4713-15 North Second street, Philadelphia, $3,000 each. Architect, private plans. Owner, Christian Dear, Jr., 4711 North Second street, Philadelphia. Brick, 2 stories, 15x39 feet, slag roof, electric lighting, hot water heating. Owner will build.

Bakery and Residence (alts.), 426 South Sixtieth street, $2,500. Architect, private plans. Owner, S. Werner, on premises. General alterations. Owner will build.

Office, 810 Dauphin street, Philadelphia, $2,000. Architect, private plans. Owner, Philadelphia Rapid Transit Co., on premises. Brick, 1 story, 11x35 feet, electric light. Owners will build.

Garage, Northwest Corner Hegerman and Friendship streets, Philadelphia, $2,000. Architect, private plans. Owner, C. H. Madison, 7142 Hegerman street, Philadelphia. Brick, 1 story, 38x36 feet, slag roof, cement floor. Owner will build.

Church, Twenty-eighth and Diamond streets, Philadelphia. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, Most Precious Blood of Our Lord Roman Catholic Church, Right Rev. Monsignor J. L. J. Kirlin, Twenty-eighth and Diamond streets. Stone, brick and steel, slate roof, steam heating. Plans in progress. Too early for details.

Athletic Recreation Centre, Twenty-sixth and Master streets. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Safety, Bureau of Recreation, 595 City Hall, Philadelphia. Owners taking bids due October 31st.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Loft Building (alts. and add.), 112 to 122 North Twelfth street and 1210-1212 Cherry street, Philadelphia. Architects, Ballinger, Inc., Twelfth and Chestnut streets, Philadelphia. Owner, Walter E. Hering, Globe Ticket Co., on premises. Brick, cut stone, concrete and steel, 9 stories, 58x183 feet and 47x34 feet, slag and tile roof, wood block, maple, composition and cement floors, hollow tile, safety treads and roof ventilators, waterproofing, terra cotta, iron work and stairs, floor hardener, bond, fire and kalamein doors, demolition, cork insulation. Contract awarded to George F. Payne Co., 401 South Juniper street, Philadelphia.

Bank Building, Rising Sun avenue and Magee street, Lawndale, $30,000. Architect, John J. Brugger, 505 Chestnut street, Philadelphia. Owners, Lawndale State Bank, care of George Ovington, Real Estate Trust Building, Philadelphia. Brick and steel, 1 story, 35x66 feet, slag roof, concrete floors, vapor heat, electric light, rolled steel sash, bond, bank fixtures. Contract awarded to Friel-McLeister, Inc., 1615 Locust street.

Factory, Torresdale avenue and Van Dyke street, Philadelphia, $50,000. Architect, C. E. Wunder, 1415 Locust street, Philadelphia. Owners, Humphreys Co., Front and Tusculum streets, Philadelphia. Brick and steel, 2 stories, 60x144 feet, slag roof, cement and maple floors, metal lath, tile work, rolled steel sash, hollow metal skylights, fire doors, bond, iron work (heating, plumbing, electric work and steel and iron work reserved). Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Building (alts.), Penn and Unity streets, Frankford, Philadelphia. Architect, Horace M. Hokanson, 1713 Sansom street, Philadelphia. Owners, Frankford Grocery Co., on premises. Concrete work, plastering, paint-

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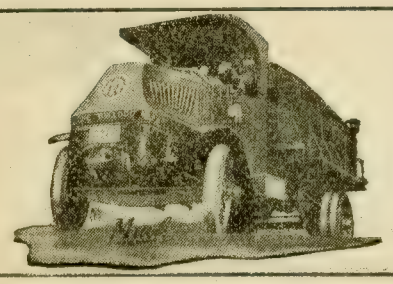
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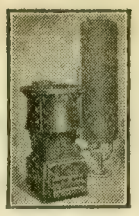
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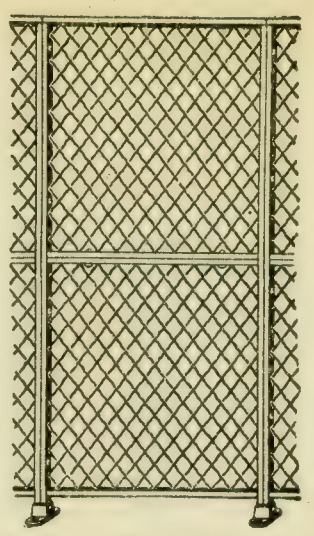
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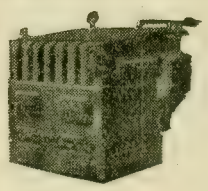
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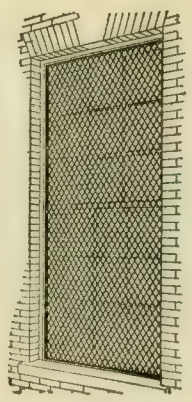
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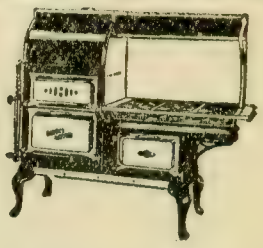
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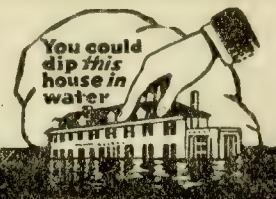


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ing, glazing, brick work, carpentry, mill work. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Residence, Upsal street, West of Wissahickon Drive, $25,000. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Morton Seideman, 121 North Seventh street, Philadelphia. Stone, 2½ stories, 31x40 feet, garage, 1 story, 16x22 feet, Spanish tile roof, hardwood floors, hot water heating, electric lighting, tile work, cement work. Contract awarded to Charles T. Clark, 3635 Germantown avenue.

Garage, 6425 Drexel road, Philadelphia. Architect, private plans. Owner, Justin Peters, on premises. Stone, 1 story, 22x22 feet, shingle roof, cement floors, steam heat, electric lighting. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Residence (alts.), 7915 Crefelt street, Philadelphia. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Dr. George Woodward, North American Building, Philadelphia. Plumbing, tile work, plastering, carpentry, mill work. Contract awarded to William J. Gruhler Co., 219 High street.

Residence (alts.), Mt. Airy, Philadelphia. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, name withheld. General interior alterations. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy, Philadelphia.

Storage Building, 2847 to 2851 Emerald street, Philadelphia. Architect, D. J. Pappano, Thirteenth and Reed streets, Philadelphia. Owner, Joseph Reis, on premises. Steel, frame and brick, 2 stories, slag roof, pine floors, electric lighting. Contract awarded to Federal Const. Co., 1240 Reed street, Philadelphia.

Residence, Southeast Corner Palmetto and Bennet streets, Philadelphia, $6,500. Architect, private plans. Owner, Peter A. Kaiser, Southwest Corner Lawrence and St. Luke streets. Brick, 2 stories, 16x40 feet, 15x10 feet, slag roof, electric work. Contract awarded to J. Fleischer & Son, 4210 North Sixth street.

Residence and Store (alts. and add.), Northeast Corner Fifteenth and Moore streets, $4,400. Architect, private plans. Owners, Michelangelo & Grasso, 1423 Moore street, Philadelphia. Brick, 1 story, 5½x79 feet, slag roof, electric lighting. Contract awarded to William Brasch, 1424 South Twentieth street, Philadelphia.

Residence and Garage, Northeast Corner Sixth and Chelten avenue, $13,000. Architect, private plans. Owner, E. Shoenhut, Southwest Corner Sepviva and Cumberland streets. Brick, 2 stories, 31x43 feet, slag roof, electric lighting, oak, pine and cement floors. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

Garage, 4544-48 Merion avenue, Philadelphia, $12,664. Owner, William H. Merz, 4551 Lancaster avenue, Philadelphia. Brick, 1 story, 48x105 feet, slag roof, cement floors. Contract awarded to J. F. Trent, 2041 Master street, Philadelphia.

Church (add.), Northwest Corner E and Allegheny avenue, $6,800. Architect, private plans. Owners, St. Nathaniel's Church, on premises. Brick, 1 story, 31x12 feet, slag roof, steam heat, electric light. Contract awarded to Roland Bale, 917 East Ontario street.

Residence, 6309 Oakley street, Philadelphia, $6,500. Architect, private plans. Owner, W. Dereary, 4002 North Fifth street, Philadelphia. Brick, 1 story, 25x46 feet, slag roof, electric lighting. Contract awarded to George Hadfield, 98 Green street, Bridgeport, Pa.

Building (add.), 5839 Germantown avenue, Philadelphia, $10,000. Architect, private plans. Owner, J. E. Weiss, on premises. Brick, 1 story, 44x48 feet, slag roof, electric lighting. Contract awarded to David Sloan, 5242 Germantown avenue.

Residence (add. and alts.), Northeast Corner Markoe and Fairmount avenue, $4,200. Architect, private plans. Owner, Frank Matshesky, 5045 North Sydenham street, Philadelphia. Brick, 2 stories, 18x14 feet, slag roof, pine floors, electric light. Contract awarded to Henry Slass, 1809 North Seventh street, Philadelphia.

Laundry, 5414 North Ella street, Philadelphia, $9,000. Architect, private plans. Owners, Suburban Laundry, on premises. Brick, 1 story, 33x71½ feet, slag roof, maple floors. Contract awarded to William L. Bushnell, 2146 East Norris street.

Garages (2), 4240-42-44 Tackawanna street, Philadelphia, $5,000. Architect, private plans. Owner, John Zeller ,4220 Tackawanna street, Philadelphia. Brick, 1 story, 17x84 feet, 44x17 feet and 36x17 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to Tony Oliveiri, 1578 Adams avenue, Philadelphia.

Residence (add.), Northeast Corner Twenty-second and Snyder avenue, $2,700. Architect, private plans. Owner, Mary A. Carey, on premises. Brick, second story add., 12x15 feet, slag roof, electric light. Contract awarded to H. Satler,, 1219 North Franklin street.

Garage, 125 South Twelfth street, Philadelphia, $2,500. Architect, private plans. Owner, Edward M. Brooke, on premises. Brick, 1 story, 17x26 feet, slag roof, cement floors. Contract awarded to William J. Bryan, 235 Spruce street, Philadelphia.

Apartment and Store (alts. and add.), 147 Hansberry street, $5,200. Architect, private plans. Owner, Joseph Cherry, Northwest Corner Pulaski and Hansberry streets. Brick, third story add., 20x17 feet, slag roof, electric lighting. Contract awarded to Frank K. Stahl, 2711 North Park avenue.

Foundry, East side Belgrade street, North of Orthodox, $5,000. Architect, private plans. Owners, Adelphia Mfg. & Plating Co., on premises. Brick, 1 story, 30x70 feet, slag roof, electric work. Contract awarded to Harry Brocklehurst, 512 West Norris street.

Garage, East side Germantown avenue, South of Duval street, $26,000. Architect, private plans. Owner, Glen O. Martin, 900 Marlyn road, Philadelphia. Brick, 1 story, 52x100 feet, slag roof, steam heat, cement floors. Contract awarded to Philadelphia Realty Co., 111 West Mt. Airy avenue.

Auto Storage Building, 2419 South street, Philadelphia, $3,000. Architect, private plans. Owner, J. D. Homley, on premises. Brick, 1 story, 27½x93 feet, slag roof, cement floors, electric work. Contract awarded to John Ehmann, 1908 Tasker street, Philadelphia.

Factory (add.), 3430-32 Lancaster avenue, Philadelphia, $2,500. Architect, private plans. Owner, Florence W. Hamly, 132 North Sixty-first street, Philadelphia. Brick, 2 stories, 30x68 feet, slag roof, cement floors, steam heat. Contract awarded to George L. Hamly, 3430 Lancaster avenue.

Residence and Store (add.), 5528 Lansdowne avenue, $3,000. Architect, private plans. Owner, Frank Braverman, on premises. Brick, 2 stories, 16x16 feet, slag roof, electric lighting. Contract awarded to Robert M. Milne, 5318 Addison street.

Office and Residence (add.), 2018 East Chelten avenue, $2,500. Owner, Dr. Cunningham, on premises. Brick, 1 story, 15x20 feet, slag roof, electric lighting. Contract awarded to A. Mesol, Folsom, Pa.

Garage, Northwest Corner Fifty-fifth and Vine streets, Philadelphia, $2,500. Architect, private plans. Owner, Daniel M. Collin, 4933 Parrish street, Philadelphia. Brick, 1 story, 60x20 feet, steam heat, cement floor, slag roof. Contract awarded to A. J. Logan, 5431 Wyalusing avenue.

Residence and Store, 1701 North Forty-second street, Philadelphia. Architect, private plans. Owner, J. Glenkoe, 1703 North Forty-second street, Philadelphia. Brick, 3 stories add., 14½x12 feet. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

Warehouse and Store, Southeast Corner Smedley and Venango streets, $2,000. Owner, Thomas Mortimer, on premises. Brick, 1 story and 2 stories add., 16x24 feet, 12x12

feet, slag roof. Contract awarded to John Roman, 414 East Bringhurst street.

Boiler House (alts.), East side Delaware avenue, North of Mifflin, $4,000. Architect, private plans. Owners, Mifflin Chemical Co., Delaware avenue and Tasker street. General alterations. Contract awarded to Frank A. Myers, 528 Perry Building, Philadelphia.

Stores (2) and Apartment, 1701 Mt. Vernon street, $3,500. Architect, private plans. Owner, Upton W. Tavenener, on premises. Brick, 1 story add., 30x8 feet, slag roof, electric lighting. Contract awarded to J. Jones Davies, 652 North Seventeenth street, Philadelphia.

Bank (alts.), 1340-42-44 Cambria street, Philadelphia, $5,000. Architect, private plans. Owner, Central National Bank, on premises. General alterations. Contract awarded to J. S. Cornell & Son, Morris Building, Philadelphia.

Garage, 3333 D street, Philadelphia, $2,500. Architect, private plans. Owner, D. Travaglin, on premises. Brick, 1 story, 28x54 feet, slag roof, cement floor, electric light. Contract awarded to Frank Cox, 6143 Ogontz avenue, Philadelphia.

Residence and Store (alts. and add.), 3333 North Front street, $2,200. Architect, private plans. Owner, Philip Sulelsky, 154 East Ontario street, Philadelphia. Brick, 1 story add., 11x17 feet, general alterations. Contract awarded to Samuel Campbell, 3346 North Hancock street.

Residence (add.), Northwest Corner Broad and Ritner streets, $2,000. Architect, private plans. Owner, Dr. J. Moffron, on premises. Brick, 1 story add., 12x25 feet, slag roof, electric light. Contract awarded to B. Bornstein, 1318 Belfield avenue.

Residence and Store (alts.), Southeast Corner Fourth and Diamond streets, $2,000. Owner, Edward S. Kowronski, on premises. General alterations. Contract awarded to B. Arrow, 992 North Seventh street, Philadelphia.

Storage House (add.), 1724-26 Jackson street, Philadelphia. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, name withheld. Tapestry brick front, concrete and steel, 2 stories, 25x33½ feet, slag roof, cement and pine floors. Contract awarded to J. Richie, 1628 South Sixteenth street, Philadelphia.

Theatre (alts.), 4910 North Broad street, Philadelhpia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Logan Auditorium, on premises. Brick, cut stone, structural steel, carpentry, mill work, hollow tile, painting, glazing, hardware, dampproofing, iron work, bond, marble and terrazzo, metal lath (heating and plumbing repairs, plastering, electric work. Contract awarded to P. M. Sax, Penfield Building, Philadelphia.

Store and Moving Picture Theatre, Sixty-third and Woodland avenue. Architect, H. C. Hodgens, 130 South Fifteenth street, Philadelphia. Owners, M. A. Benn and Stanley Co., 1218 Market street, Philadelphia. Brick, limestone and steel, 2 stories, 62x100 feet, asphalt roof, cement and maple floors, metal lath, roof ventilators, metal ceilings, waterproofing, iron work, floor hardener, bond, tile, marble and terrazzo work. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets, but not yet signed.

Residence, Mt. Airy, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, William J. Faux, Harrison Building, Philadelphia. Stone, 2½ stories, 35x80 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile and marble work. Contract awarde dto Stokes Brothers, 6723 Musgrave street, Philadelphia.

Manufacuring Building (add.), 4669 Stenton avenue, $7,000. Architect, private plans. Owners, Gibson & Stern, on premises. Brick, 2 stories, 20x40 feet, slag roof, steam heat, electric work. Contract awarded to William Steele & Sons Co., 1600 Arch street, Philadelphia.

Dye House, East side Third street, North of Bristol street, $6,300. Architect, private plans. Owners, Majestic Silk Hosiery Dyeing Co., Third and Bristol streets. Brick, 1 story, 30x80 feet, slag roof, electric lighting, cement floors. Contract awarded to A. Earl Barnes, 2044 East Clementine street, Philadelphia.

Office Building, West side Wayne avenue, South of Roberts avenue, $4,000. Architect, private plans. Owners, J. T. Craig & Co., on premises. Brick, 1 story, 18x28 feet, slag roof, electric light, pine floors. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

Building (alts.), 221 West Girard avenue, Philadelphia, $3,000. Architect, private plans. Owner, A. Martino, 242 Daly street, Philadelphia. General alterations. Contract awarded to A. Mannucanio, 2742 South Marshall street, Philadelphia.

Residence (add. and alts.), 5507 Lansdowne avenue, $2,100. Architect, private plans. Owner, S. Parci, on premises. Brick, 1 story add., 16x16 feet, general alterations. Contract awarded to Max Zipki, 3973 Wyalusing avenue, Philadelphia.

Ice Station, Miller and Commissioner streets, Philadelphia. Architect, private plans. Owners, Kensington Hygeia Ice Co., Trenton avenue and Huntingdon streets, Philadelphia. Brick and steel, 1 story, 40x70 feet, slag roof, cement floors, waterproofing. Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia.

PENNSYLVANIA Construction News

Club House and Men's Locker Room, Oak Lane avenue and Ashbourne road, Ashbourne, Pa. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Ashbourne Country Club, Ashbourne, Pa. Stone and stucco, 2 story add., 40x60 feet, locker room, 1 story, 40x80 feet, slate roof, maple and oak floors, steam heating, electric lighting, tile work, water supply, sewage disposal system, landscape gardening. Plans in progress. Architect will take bids in one month.

Combination Building (School and Chapel), Bywood, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Alice's Roman Catholic Church, care of Rev. William L. Hayward, Bywood, Pa. Stone, brick and steel. Plans in progress. Will take bids in two months.

Hall Building (alts. and add.), Conshohocken, Pa. Architects, United Engineering Co., 323 Walnut street, Philadelphia. Owners, Knights of Columbus, Court 1603 Conshohocken, Pa. Brick work, cement work, structural steel and iron, plastering, oak and composition floors, metal lath, painting, glazing (heating, lighting and plumbing separate bids). Revised plans in progress. Will take new bids in one week.

Church, Grimville, Pa. Architect, G. C. Freeman, Sixth and Court streets, Reading, Pa. Owners, New Bethel Zion Congregation, care of architect. Stone, 1 story and basement, 110x60 feet, slate roof, pine floors, steam heat, electric light. Architect ready for bids.

Bakery, Myerstown, Pa. Architect, L. D. Lance, 108 North Fifth street, Reading, Pa. Owners, Pretz-Sticks Bakery Co., Myerstown, Pa. Brick, concrete block, 2 stories, 102x102 feet, slag roof, pine and concrete floors, electric light, metal lath, roof ventilators, rolled steel sash, fire doors, waterproofing and dampproofing. Owners taking bids due as soon as possible.

Residence, 102 Lansdowne Court, Lansdowne, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Brick and frame, 3 stories, 52x27 feet, 2 story, 16x20 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile and marble work, oil burning equipment. Plans in progress. Architect will be ready for sub-bids in one week.

Grand Stand (add.), Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Reading Fair Association, care of J. B. Schaeffer, Penn Side, Read-

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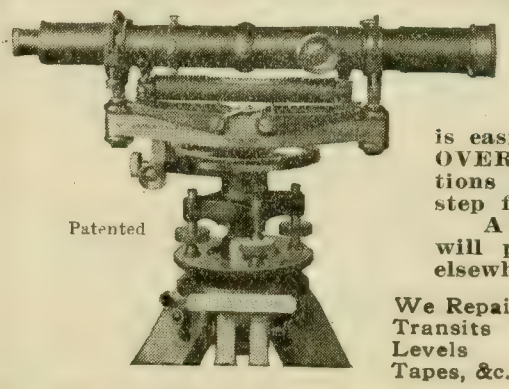
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ing, Pa. Steel, concrete, 200x60 feet, concrete floors, electric light, 1 story. Preliminary plans in progress.

Residences (2), Wyomissing, Pa. Architect, L. D. Lance ,108 North Fifth street, Reading, Pa. Owner, Mrs. C. M. Lance, Mt. Penn, Reading, Pa. Brick, 2½ stories, 48x46 feet, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Printing Plant, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Semi-fireproof, steel, 3 stories, 40x100 feet. Plans in progress.

Residence, Nanticoke, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, name withheld. Frame, 2½ stories, 36x50 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

School, Clark's Summit, Pa. Architect, H. C. Rutherford, 316 Washington street, Scranton, Pa. Owners, Clark's Summit and Clark's Green School District, William Widdowfield, secretary, Clark's Green, Pa. Brick, stone, 2 stories, 153x150 feet, slag roof (heating, plumbing and electric lighting reserved), metal lath, tile and marble work, rolled steel skylights. Revised plans in progress.

Conservatory and Green House, Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, name withheld. Brick, 1 story, 20x20 feet, marble floors, glazing. Plans in progress.

School, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Sts. Simon and Jude Church, care of Rev. E. Stapleton, West Broad street, Bethlehem, Pa. Brick, steel, cut stone, 2 stories and basement, 60x90 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, roof ventilators. Plans in progress.

Double Residence, Allentown, Pa. Architect, Robert Ochs, Odd Fellows' Building, Bethlehem, Pa. Owner, name withheld. Brick, 2 stories, 32x40 feet, slate roof, hardwood floors, hot water heat, electric light. Plans in progress. Architect will be ready for bids in ten days.

Double Residence, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, David Levy, 949 Hamilton street, Allentown, Pa. Hollow tile and stucco, 2½ stories, 60x60 feet, tile roof, hardwood floors, vapor heat, electric light, tile work. Architect taking sub-bids.

Residences (4), College Heights, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Kester & Co., Twenty-seventh and Greenleaf streets, Allentown, Pa. Brick, hollow tile and stucco, 1½ stories, 25x40 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Owner will build.

Residence, Bethayres, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, Herbert Johnson, care of architect. Hollow tile and stucco, irregular, 2½ stories, tin roof, hardwood floors, hot air heating, electric lighting, tile work. Architect taking bids due October 31st at noon.

Store and Apartment, South Main street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Ginley Brothers, care of architects. Brick, 2 stories, 40x150 feet, built-up roof, hardwood floors, steam heat, electric light, tile work. Architects ready for bids due November 1st.

Residence (double), Scranton, Pa. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owner, J. C. Kerr, 219 Wyoming avenue, Scranton, Pa. Stucco, 2 stories, 40x54 feet, slate roof, hardwood floors, steam heat, electric light. Architect ready for bids.

Vocational School, Mill City, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owners, Mill City School Board, care of W. J. Agrey, Mill City, Pa. Frame, 2 stories, 70x86 feet, shingle roof, pine floors, steam heat, electric light, roof ventilators. Owners will be ready for bids in one week.

Sales Warehouse, Pittsburgh, Pa. Architects, Howley & Coon, Traders' Bank Building, Scranton, Pa. Owners, Fairmount Cream Co., Omaha, Neb. Steel, reinforced concrete, 5 stories and basement, 72x100 feet, reinforced concrete roof, concrete floors, steam heat, electric light, tile work, rolled steel sash and skylights, freight elevators, roof ventilators, fire doors, waterproofing, dampproofing, floor hardener, iron stairs, ornamental iron work. Architects ready for bids due November 6th.

Duplex House, Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Thomas Protherae, 838 Monroe street, Scranton, Pa. Frame, stucco, 2 stories, 30x55 feet, asphalt shingle roof, hardwood floors, steam heat, electric light. Architect will be ready for bids in a few days.

Convent, Lost Creek, Pa. Architect, G. C. Freeman, Sixth and Court streets, Reading, Pa. Owners, St. Mary Magdeline Parish, Rev. W. T. Kelly, on premises. Brick and frame, 3 stories, 40x75 feet, slate roof, tile and pine floors, electric lighting. Owner will sub-let.

Central Office Building, Hazleton, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 2 stories and basement, 31x25 feet, slag roof, composition and cement floors, metal lath, demolition, steam heat, electric lighting, marble work, bond, iron work. Architect taking bids due October 30th.

Stores (2), Glenbrook avenue, Bryn Mawr, Pa. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Frank Pietropaolo, care of architect. Tapestry brick, 2 stories, 38x24 feet, slag roof, pine floors, plate glass, hot water heat, electric lighting. Architect taking bids due as soon as possible.

Residences (10), Retreat, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Central Poor District, care of George Brown, Franklin street, Wilkes-Barre, Pa. Concrete, 2 stories, 40x160 feet, slag roof, pine floors, electric lighting. Architect taking bids due October 26th.

Whitby Hall (removal and re-erection), Haverford, Pa. Architect, Henry L. Duhring, 1309 Locust street, Philadelphia. Owner, George B. Taylor, care of architect. Architect taking bids due October 28th.

Junior High School, Altoona, Pa. Architect, Julien Millard, Altoona, Pa. Owners, Altoona Board of Directors, Altoona, Pa. Brick, cut stone and steel, 3 stories, 221x233 feet, composition roof, mastic and maple floors, hollow tile, metal weather strips, iron stairs and work, hollow metal doors, tile and marble work, rolled steel sash, metal lath (heating, electric work and plumbing separate bids). Lowest bidders: H. J. Conrath, Erie, Pa., $551,714; Prahl Const. Co., Erie, Pa., $563,462.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Lowest bidders on road work opened October 17th.

Allegheny County, R-187, Wilkins, Penn and Patton Townships; one course reinforced concrete and hillside vitrified brick. R. H. Cunningham & Sons Co., Turtle Creek, Pa., $383,215.98.

Allegheny County, R-70 and 72, Shaler Township, 5,618 feet. One course reinforced concrete. Burgess & Dorrier, Scottsville, Va., $151,443.00.

Armstrong County, R-214, Brady's Bend Township, 22,107 feet. One course reinforced concrete. David Schoentag, Inc., Saugerties, N. Y., $206,762.40.

Beaver County, R-77, Homewood Borough, 2,427 feet. One course reinforced concrete and hillside vitrified brick. Albert Dahl, Ellwood City, Pa., $56,183.60.

Beaver County, R-243, Industry Township, 21,986 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Harness-Remick, Williamsport, Ohio, $207,671.80.

Beaver County, R-243, Borough and Industry Township, 17,197 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. David Schoentag, Inc., Saugerties, N. Y., $177,30.85.

Columbia County, R-4, Scott and Center Townships, 26,495 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Trinidad Asphalt Paving Co., Larksville, Pa., $185,688.

Columbia County, R-4, Center Township and Briar Creek Borough, 21,627 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Trinidad Asphalt Co., Larksville, Pa., $161,746.39.

Jefferson County, A-1958, Brookville Borough, 1,921 feet. One course reinforced concrete and hillside vitrified brick. W. C. Quick & Co., Brookville, Pa., $43,511.28.

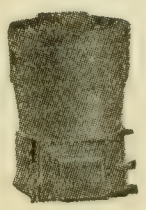
Lackawanna County, A-1975, Old Forge Borough, 5,812 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Michael Rosato & Sons Co., Scranton, Pa., $40,224.20.

Lakawanna County, A1976 and 1976A, Moosic Borough, 4,615 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Michael Rosato & Sons Co., Scranton, Pa., $81,653.66.

Lancaster County, A-2095, R-344, Quarryville Borough, 1,452 feet. One course reinforced concrete. Swanger-Fackler Const. Co., Inc., Lebanon, Pa., $14,801.30.

Lawrence County, R-77, North Beaver Township, New Castle City, 2,893 feet. One

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course reinforced concrete. Jamieson & Narlee, Fredonia, Pa., $26,256.00.

Mercer County, A-2107, Hickory Township, 2,028 feet. One course reinforced concrete. Jamieson & Narlee, Fredonia, Pa., $18,087.60.

Monroe County, A-1963, Pocono and Paradise Townships, 7,051 feet. Bituminous macadam (penetration method) on broken stone base. H. B. Sproul Const. Co., Inc., Scranton, Pa., $37,679.70.

Northampton County, R-165, Bangor Borough, 4,786 feet. One course reinforced concrete and hillside vitrified brick. Neumayer Brothers, Bethlehem, Pa., $62,315.10.

Venango County, A-1981, Rouseville Borough, 4,108 feet. One course reinforced concrete. F. S. Wilson, Kittanning, Pa., $44,433.91.

York County, R-333, Fairview and Newberry Townships, 20,088 feet. One course reinforced concrete and hillside vitrified brick. Kumer & Graeber, Shamokin, Pa., $215,365.25.

York County, R-250-333, Fairview Township, 22,806 feet. One course reinforced concrete and hillside vitrified brick. Kumer & Graeber, Shamokin, Pa., $261,549.48.

Venango County, R-207, Sugar Creek Township, reinforced concrete bridge. Trimpey & Whipkey, Casselman, Pa., $20,188.39.

Berks County, A-1664, Richmond Township, 11,237 feet, one course reinforced concrete. Juniata Co., 410 Empire Building, Philadelphia, $75,000; Peconce Co., New York City, $79,556.

Lehigh County, R-226, A-1523, North Whitehall, Heidelberg Township, 24,077 feet. One course reinforced concrete. Juniata Co., 410 Empire Building, Philadelphia, $170,000; Peconco Co., New York City, $172,615.

School, Stewartstown, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, Board of Education, Stewartstown, Pa. Brick, 1 story, 137x60 feet, slag roof, hardwood woods, roof ventilators, dampproofing (heating, electric lighting and plumbing reserved). Owners taking bids due November 15th.

Store and Apartment, West Market street, York, Pa., $40,000. Architects, Gimmell & Billmeyer, Rosenmiller Building, York. Owners, Stough & Lucas, York, Pa. Brick, stone and frame, 4 stories, 30x150 feet, slag roof, hardwood floors, steam heat, electric light, tile work, rolled steel skylights, plate glass, copper work. Plans in progress.

Rectory, York, Pa. Architects, Edward Leber and J. H. Hatton, associated, Hay Building, York. Owner, Rev. James McGrath, 231 South Beaver street, York, Pa. Brick, 3 stories, 33x60 feet, copper and tile roof, hardwood floors, vapor heat, electric light, tile and marble work. Architect taking bids due as soon as possible.

Pennsylvania Contracts Awarded

Wilkes-Barre Exchange, Wilkes-Barre, Pa. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, third floor add., 152x24 feet, and 3 story add., 36x36 feet, slag roof, concrete floors, metal lath, waterproofing, terra cotta, iron stairs and work, bond, hollow metal sash, tile and marble work, demolition, steam heat, electric lighting. Contract awarded to Franklin M. Harris & Co., 1520 Parrish street, Philadelphia.

Ardmore Exchange (alts. and add.), 42 West Lancaster avenue, Ardmore, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 3 stories, 40x28 feet and 11x23 feet, slag roof, concrete floors, metal lath, waterproofing, terra cotta, iron stairs and work, bond, hollow metal sash, tile and marble work, demolition, steam heating, electric work. Contract awarded to F. M. Harris & Co., 1520 Parrish street, Philadelphia.

Exchange Building, 22 East Baltimore avenue, Lansdowne, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 3 stories, 32x20 feet, slag roof, concrete floors, metal lath, waterproofing, terra cotta, iron stairs and work, bond, hollow metal sash, tile and marble work, electric light, steam heat, demolition. Contract awarded to F. M. Harris & Co., 1520 Parrish street, Philadelphia.

School and Auditorium, Newmantown, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owners, Mill Creek School District, R. Chauvenet, Newmanstown, Pa. Brick, 2 stories, 70x100 feet, slag roof, maple floors (electric light, heating and plumbing reserved), metal lath, rolled steel sash. Contract awarded to Reber Const. Co., Lebanon, Pa.

Residence (alts. and add.), Rosemont, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, George H. McFadden, 121 Chestnut street, Philadelphia. Brick, cut stone and steel, 3 stories, 77x60 feet, slate, tile and slag roof, cement and oak floors, metal window guards, ornamental iron work, bond, tile and marble work, warm air heating (electric wiring, fixtures and hardware reserved). Contract awarded to J. S. Cornell & Son, Morris Building, Philadelphia.

High School, Wyoming, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Wyoming School Board, W. Reynolds, secretary, Wyoming, Pa. Brick, 2 stories, 60x70 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved), tile work. Contract awarded to Herman Mailander, 167 Barney street, Wilkes-Barre, Pa.

Residence, Kingston, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, H. C. Rippard, care of architects. Frame and stucco, 2½ stories, 25x32 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Ecker & Connolly, Parrish street, Wilkes-Barre, Pa.

High School, Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Plains School Board, care of William Robertson, Plains, Pa. Brick, 2 stories, 150x170 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, hollow tile, tile and marble work, roof ventilators, rolled steel skylights, waterproofing, dampproofing, vaults. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

Warehouse, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Ralph Israel, Wilkes-Barre, Pa. Slow-burning brick, 4 stories, 35x100 feet, slag roof, pine floors, electric light, freight elevator, rolled steel sash, fire doors, iron stairs. Contract awarded to Behrens & Son, 179 Blackman street, Wilkes-Barre.

Residence (alts. and add.), Ogontz, Pa. Architects, Willing, Sims & Talbutt, 122 South Eighteenth street, Philadelphia. Owner, Dr. William Pepper, Ogontz, Pa. Brick, cut stone, carpentry, mill work, shingle roof, pine floors, painting, glazing, hardware, tile and marble work, iron work (heating, lighting and plumbing separate bids). Contract awarded to E. Allen Reeves, Inc., Abington, Pa.

Residence and Garage, Arlington and Lunn Boulevard, Highland Park, Upper Darby Township, Pa., $15,000. Architect, Lyle G. Park, Bellevue Court Building, Philadelphia. Owner, John W. Harper, Eleventh and Walnut streets, Philadelphia. Frame and stucco, 2 stories, 40x28 feet, asbestos shingle roof, hot water heat, electric lighting (hardwood floors, electric fixtures and papering reserved). Contract awarded to James H. Wells, 34 South Sixteenth street, Philadelphia.

Bungalow, Oakmont, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, K. McElroy, care of architect. Frame and stucco, 1½ stories, 40x47 feet, slate roof, pine floors, hot water heat, electric light, tile and iron work. Contract awarded to Conneen Const. Co., 10 South Eighteenth street, Philadelphia.

Residence, Swarthmore, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, William H. Thatcher, Lafayette Building, Philadelphia. Stone, 2½ stories, 26x34 feet, shingle roof, oak and pine floors, warm air heating, electric lighting, tile work. Contract awarded to McNeill Valentine Co., 841 North Broad street.

Hotel, Emaus, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, L. F. Neuweiler, 124 South Seventh street, Allentown, Pa. Brick, 3 stories, 48x32 feet, slate roof, pine floors, electric lighting, tile work. Contract awarded to A. E. Nichols, Commonwealth Building, Allentown.

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Residence (alts. and add.), Market street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, C. L. Thornburg, University Park, Bethlehem, Pa. Brick, 2 stories, 25x22 feet, slag roof, hardwood floors, general interior and exterior alterations. Contract awarded to George Heller, 719 North New street, Bethlehem, Pa.

Church and Sunday School, Wilkes-Barre, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Westminster Presbyterian Church, Rev. Davies, Wilkes-Barre, Pa. Stone, 1 story and basement, 49x100 feet, 92x62 feet, slate roof, hardwood floors, electric light. Contract awarded to Shepherd Const. Co., Miners' Bank Building, Wilkes-Barre, Pa.

Store and Loft Building, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, E. Slattery, Coal Exchange Building, Wilkes-Barre, Pa. Brick, 3 stories, 60x70 feet, slag roof, pine floors, electric light. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre, Pa.

Factory, Mt. Etna, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Liebovitz & Sons, care of architect. Frame, 1 story, 27x40 feet, composition roof, pine floors, electric light. Contract awarded to Klopp & Co., Sheridan, Pa.

Garage, Abington, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Lester B. Kohler, care of architect. Frame and brick, 1 story, 20x21 feet, slag roof, cement floor, electric lighting. Contract awarded to Conneen Const. Co., 10 South Eighteenth street, Philadelphia.

Bridge, South of Neversink, Pa., No. 54-03. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets, Philadelphia. Setting ascending stone arch and reinforcing wing wall. Contract awarded to Arthur McMullin Co., Delaware and Snyder avenues, Philadelphia.

New Jersey Construction News

Residence, Haddonfield, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, J. Spencer Lucas, Camden, N. J. Stone, 2½ stories, slate roof, hardwood floors, hot air heating, electric lighting, tile work. Plans in progress.

High School and Gymnasium, Collingswood, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, School Board of Collingswood, N. J. Brick, limestone and steel, 3 stories and basement, 135x150 feet, gymnasium, 1 story and basement, 86x46 feet, slag roof, pine floors, steam heat, electric lighting, hollow tile, roof ventilators. Architect will take bids November 1st.

Hospital (alts. and add.), Plainfield, N. J. Architects, Crow, Lewis & Wick, 200 Fifth avenue, New York City. Owners, Muhlenberg Hospital, Plainfield, N. J. Brick, reinforced concrete, cut stone and steel, 3 stories, 111x37 feet, shingle roof, oak floors, hollow tile, metal lath, iron work, vapor heating, electric lighting, tile, marble and terrazzo work. Architects taking bids, due October 30th.

Store (alts.), Northeast Corner Atlantic and Bellevue avenues, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Nathan Greenberg, on premises. Concrete footings, pine floors (heating alterations), plumbing, plastering, tile work, electric work, carpentry, mill work, plate glass, flush bulks. Architect taking bids due as soon as possible.

Residence, Haddonfield, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, J. Spencer Lucas, Camden, N. J. Stone, 2½ stories, slate roof, hardwood floors, hot air heating, electric lighting, tile work. Architect taking bids due October 31st at noon.

Residences (add.), No. 9 North Mississippi avenue, Atlantic City, N. J. Architect, Donald Rosenstein, Humphrey Building, Atlantic City, N. J. Owner, Leonard Scionscia, on premises. Brick, 2 stories, slag roof, pine floors (heating reserved), electric lighting, plumbing, plastering, cement work. Architect taking bids due as soon as possible.

School, Assembly Room, Gymnasium and Swimming Pool, Trenton, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owners, Trenton School Board, R. C. Belville, secretary, Trenton, N. J. Brick, steel, fireproof, 2 stories and basement, 25 rooms, tile roof (heating, plumbing and electric work reserved), tile and marble work, hollow tile, metal lath, safety treads, roof ventilators, waterproofing and dampproofing, rolled steel skylights, iron stairs, ornamental iron work. Owners taking bids due November 6th.

New Jersey Contracts Awarded

School, Cinnaminson, N. J., $46,198. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Board of Education, Township of Cinnaminson, Burlington County, N. J. Brick and steel, 2 stories, 85x50 feet, slag roof, cement and maple floors, metal lath, tile work, hollow metal sash, bond, iron work. Contract awarded to George W. Shaner & Son, Palmyra, N. J.

Apartment House, Oakland and Atlantic avenues, Atlantic City, N. J., $75,000. Architect, Bertram C. Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Harry Weinmann, Atlantic City. Brick, steel, concrete, cut stone, terra cotta, 3 stories. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Factory, Mt. Vernon and Mt. Ephraim avenue, Camden, N. J., $30,000. Architect, Emil Bullock, 34 South Seventeenth street, Philadelphia. Owners, Camden Pottery Co., Camden, N. J. Brick and steel, 2 stories, 70x140 feet, slag roof, cement floors (heating, electric work and elevators reserved), rolled steel sash, iron work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Store, 525 Broadway, Camden, N. J., $19,300. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, W. L. Hurley Co., 451 Haddon avenue, Camden, N. J. Brick, 1 story, 20x100 feet, slag roof, pine and terrazzo floors, hot air heat, electric light, marble and terrazzo work, roof ventilators. Contract awarded to James W. Draper, 436 Haddon avenue, Camden, N. J.

Building (alts.), 312 Cooper street, Camden, N. J., $10,000. Architect, private plans. Owners, U. S. Veterans, Arlington Building, Washington, D. C., care of Sub-District Manager, District No. 2, 23-25 Broadway, Camden, N. J. Carpentry, mill work, pine floors, painting, wire fences, hardware, heating repairs, electric lighting, plumbing. Contract awarded to J. M. Yardley, 1716 Sansom street, Philadelphia.

Pumping Station, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, Commissioner Feel, Trenton Water Works, Trenton, N. J. Concrete, stone, 1 story, 40x80 feet, slate roof, concrete floors, electric lighting. Contract awarded to William Hicks, Trenton, N. J.

Store and Apartment, Greenwood street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Philip Morgan, 1200 Greenwood street, Trenton, N. J. Frame, 2 stories, 35x75 feet, shingle roof, pine floors (heating and plumbing reserved), electric light, tile work. Contract awarded to Watkins & Griffith, Trenton, N. J.

Miscellaneous Construction News

War Memorial Building, Baltimore, Md. Architect, Laurence H. Fowler, 347 North Charles street, Baltimore, Md. Owners, City of Baltimore and State of Maryland, Baltimore, Md. Brick, granite, cut stone, steel and concrete, 1 story, basement and gallery, 186x100 feet, slag roof, concrete linoleum and plank floors, metal lath, waterproofing and dampproofing, iron work, bond, hollow metal doors and sash, tile and marble work. Architect taking bids due October 31st at 3 P. M.

High School, Baltimore, Md. Architect, Josias Pennington, 330 North Charles street, Baltimore, Md. Owners, North Eastern Junior High School, Board of Education, Baltimore, Md. Reinforced concrete, brick, limestone, granite and steel, 3 stories and basement, 151x130 feet, (2) wings, 74x159 feet, slag roof, composition, concrete and pine floors, metal lath, elevators, metal weather strip, waterproofing and dampproofing, terra cotta, iron work and stairs, bond, floor hardener, kalamein doors, rolled steel sash and skylights, tile and marble work, steam heating, electric work. Lowest bidders: J. Henry Miller, Baltimore, Md., $997,000; Charles L. Stockhausen, Baltimore, Md., $998,447.

Oil House, Tool Check Room and Crew Rest Room and Engine House, Hagerstown, Md. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick and steel, 1 story, 30x15 feet, 36x35 feet and 120x136 feet, slag roof, reinforced concrete and pine floors, rolled steel sash, rolling steel doors (plumbing, heating and lighting reserved), iron work. Contract awarded to John P. Pettyjohn & Co., Lynchburg, Va.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 23, 1922.—Sealed Proposals will be opened in this office at 3 P. M., November 20, 1922, for roof over extended mailing platform, etc., United States Post Office, Toledo, Ohio. Drawings and specification may be obtained from the Custodian at the building, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 680)

house. It is the duty of every man who has it in his power to sway the judgment of the prospective home builder to explain a method of building into his home, protection not only from fire to his family but protection to his neighbors from a conflagration.

Architect, Contractor, Engineer, Owner —All Must Work Together

It behooves us, as a humane and intelligent people, to call a halt to this national waste. Instead of casually remarking upon the size of the annual fire waste when it is quoted in dollars and cents, rather we should visualize the misery of those who have seen the savings of a lifetime go up in smoke or the indescribable anguish of those who have had their beloved ones perish in a horrible flaming death. This depiction of the annual fire report coupled with the realization that Fire is a Brother of the Grim Reaper who strikes without warning, should cause us to pause and ask ourselves: "Am I trying to prevent the visitation of this destroyer to my home?"

COLOR AND TEXTURAL EFFECTS IN STUCCO

Opportunity for Originating in Beautifying House Exteriors

BY EDWIN K. BORCHARD, in *The House Beautiful*

Every lover of beautiful houses has a vivid mental image of each of the few houses which have superlatively pleased; or it may be that he has visualized a "dream house" which is a composite ideal of the best and most perfect details of many houses. And yet, when we see or think of a beautiful house, how often do we analyze our impressions to determine just what it is that excites our admiration? Probably very rarely—and indeed, often it is wiser not to look too closely lest we find some flaws in our perfect gem.

It is safe to say that the architectural treatment of the house, the balancing of proportions, detail and ornamentation contribute a large part to the effect a house makes upon the observer, as do also the surroundings of landscaping and planting. But closely allied to these, in adding to, or detracting from, the appearance, are the colors and textures of the walls. We often see an otherwise passable house made absolutely hopeless by the antagonistic or too-brilliant shades of a poorly chosen color scheme. Picture the most charming country house of the clean white New England cottage type that you have ever seen, in its setting of green lawns—and then try to imagin it painted a barn red or a chocolate brown! An exaggerated example of course, yet it illustrates in a *reductio ad absurdum* how important a part color plays in the appearance of any house.

Properly handled, stucco affords a wide range of colors and yet, because of certain limitations, it does not allow any great errors to be made in choosing the colors. An almost infinite number of shades are available, but because these shades are all soft and subdued they combine well with almost any architecture or setting. Unless a deliberate effort is made to secure brilliant or decided colors, any of the lighter-toned stuccos of today will yield pleasing colors.

To deal specifically with color combinations or to recommend particular shades for one type or another of house is as impossible as specifying or giving advice on the color of a gown or scarf—it really is a field where individuality must have free play. However, there are certain broad general rules to which it is advisable to adhere, though of course like all rules they may be broken.

First of all, a smooth, pure white finish is not advisable for any city or even semi-suburban location where the air is smoke-laden and carries soot and dust to discolor the walls. White is possibly the oftenest chosen color—hence many will not agree to this dictum. It is better, however, frankly to recognize this limitation which is common to all white surfaces, whether of paint, stucco or marble. A pure white stucco wall may be scrubbed or acid-washed to restore the original whiteness, but it is best to avoid this necessity. This does not mean that we must fall back upon a dark gray stucco or some similar smoke-colored shade. On the contrary, we need only substitute for pure white, a delicate cream or warm buff-tone which any *reasonable* amount of smoke will only mellow without being so glaringly apparent as on a white surface.

In the suburban or country house blessed with pure air and the proper green setting, the white stucco house is at its best. The delightful contrast between white and green, each serving to accentuate the beauties of the other, forms a perfect picture which easily explains the popularity of white houses. The fact that the whiteness is not a matter of a surface coating but is *in* the wall and hence permanent, in itself is an attractive feature of stucco.

So that an intelligent selection may be made of color combinations and effects in stucco, it is helpful for the owner to have some knowledge of the technique of obtaining the desired effects. Color in stucco is obtained in two ways: by the natural method and by the artificial. As might be expected, the former method is preferable in almost all cases.

The term "natural" is used because the color is imparted by naturally colored sand, pebbles or stone chips in conjunction with white Portland cement. Some years ago the regular gray cement was used for stucco, but with the advent of white cement, color in stucco was made possible because the background of white permitted the color tones of sand or stone to be exhibited in their full value. For this reason the effects obtained carry a feeling of freedom from artificiality and a natural variegation that is only possible when Nature contributes the color from her own palette.

Pure white is the simplest of all and merely requires a clean white sand or crushed marble and white cement. Equally simple are the creams, buffs and light browns, for these may be imparted by an ordinary yellow or brownish sand, often available from nearby sources and at a remarkably low cost. Many an owner who has set his heart upon white stucco and found white sand not easily obtainable, has been delightfully surprised by the splendid tone resulting from the use of an ordinary yellow sand. The delicate cream or warm buff resulting has just sufficient color to give the effect of that subtle toning so often contributed by Time.

Reds, pinks, green and yellows are obtained by the use of stone chips or pebbles of the color sought for, either by a layer of the chips cast-on and pressed into the stucco or else mixed in integrally with the stucco. Pink granite or feldspar chips and yellow pebbles may be employed, or red, yellow and green marble chips utilized—even a mixture of several colors is often desirable for securing a natural variegation and tone-blending.

In the securing of color by natural methods the tones are all subdued and easily adapted for harmonizing with the surroundings. Where a striking, pronounced and more vivid tone is desirable, resort is made to coloring by means of powdered mineral pigment mixed with the stucco.

It is safe to say that the most interesting recent development in the art of beautifying house walls is the use of textural effects in stucco. Like many other artistic treatments, it is a deliberate revival of the older and cruder workmanship of bygone days, when our modern machine-like precision and perfection was not possible. Probably texture as applied to stucco and plastered surfaces originated with the half-timbered type of English country house.

At first, no doubt, the rough marks of trowel and float were due to lack of care or the limitation of tools and materials. When the charming effects resulting began to be appreciated, the treatment became more delibrate, free-hand and informal—fitted for harmonizing with the rugged simplicity of the half-timbered country house. It has, today, developed into a means of decorating wall surfaces at low cost and with no sacrifice of lasting quality or integrity of the wall material.

Wall surfaces of large unbroken area need some type of textural treatment as

an aid to architectural ornamentation in avoiding monotony of appearance. This need of texture is recognized in other materials than stucco, as is evidenced by present-day use of rough textured brick, or by rough, uncoursed stone walls. Probably with stucco the charm of texture is explained also by the liking we all have for any piece of work that shows the craftsman's labor. A piece of hand-carved furniture, though perhaps not so sure and perfect in its execution, receives our attention, where one machine-sawed does not attract us even by its mechanical perfections. So a stucco surface showing the marks of trowel and float interests us, while a smooth finish is the usual and uninteresting.

Textural finishes must be used cautiously and with judgment in order to avoid effects merely bizarre or unusual. The surroundings and setting of a house, as well as its architectural style, determine the textural treatment that will be most appropriate. For example, a city house limited in size of lot, should be finished with one of the more usual surfaces, while a country house may be given practically any texture, with the bolder and more informal ones favored. Again, the distance between roadway and house is an important factor: the greater the distance the rougher may be the texture. In other words, an extremely rough surface that is beautiful at a distance might by the courseness of its details lose some of its attraction when viewed from a roadway twenty or thirty feet away.

Certain standard textural finishes are the ones best adapted to the average house placed on a moderate size suburban lot, and also where expense is a consideration. Such finishes are known as sand floated, spatter dash, pebble dash and stippled. All can be applied by the ordinary skillful workman without undue cost. A stippled texture is one of the best for giving a moderate roughness suited to most houses and locations. It has also the advantage of being almost "*foolproof*"—that is, its appearance is almost sure to be pleasing even under the hand of a mediocre workman. In a locality where the very best labor is not obtainable, such a finish is extremely useful.

The underlying motif of all the more unusual texture finishes, is the frank exhibition of the technique of application. The mark of trowel and float is not concealed, but is even accenuated to produce the proper impression. It might be likened to the bold brush-strokes of the painter in oils, who not only does not seek to conceal, but sometimes emphasizes the light and shadow by a lavish use of his pigments. So the strokes of the plasterer's tools are manipulated to give an interesting surface to stucco—to impart character to plain wall areas and to produce that air of informality so desirable in the country house.

At first glance, these finishes look simple of execution because of their seeming lack of careful workmanship, but in reality they require great skill in application. One of the unexpected features is the difficulty of persuading the plasterer to forget his love of true, smooth surfaces and to deliberately produce what to him appears a poor job. In fact it is a wise precaution to use a small portion of wall in an out-of-the-way part of the house for experimental purposes. The workman then applies, in the presence of the owner, say six square feet of the chosen texture. If it does not meet with approval it is at once scraped off before it has hardened and the effort repeated until a satisfactory finish is secured. This acts as a comparison sample for the whole of the house. In judging texture, it is essential to do so at a sufficient distance to allow proper perspective.

A finish of great possibilities and one much used is one which results from allowing the trowel or float, drawn in a semicircular direction, to form slight ridges in the stucco, these ridges overlapping or rather joining each other at various angles. This gives a moderately smooth surface broken up by the circular float making. Especially under oblique light, these markings are thrown into relief and by the contrast of bright lights and shadows impart an effect extremely attractive. This finish forms a splendid background for vines and gives a texture sufficiently rough to afford good support for them.

A rougher and more unstudied finish than the one just described is obtained by depositing with the float mortar in haphazard masses and without any effort toward continuity of surface or level. Practically no limit exists as to the variations possible with this finish. In one the impress of the float is more or less patterned and regular; in another the irregularity is so marked as to give almost the effect of an unfinished surface. This type of texture must be employed with great care to avoid an eccentric or bizarre finish.

New textures may be originated almost at will because of the plastic nature of stucco. One unusual finish consisted of long irregular scorings in the surface—another a roughened surface partly flattened and smoothed with a trowel. On one very unusual house near New York City, the stucco finish is said to have been applied with bare hands, and exhibited the marks of hands and fingers. Surely this is reverting to old methods of construction and might be said to have revived the finishes used in the wattle and daub huts that were the forerunners of our present-day highly perfected and modernized stucco houses.

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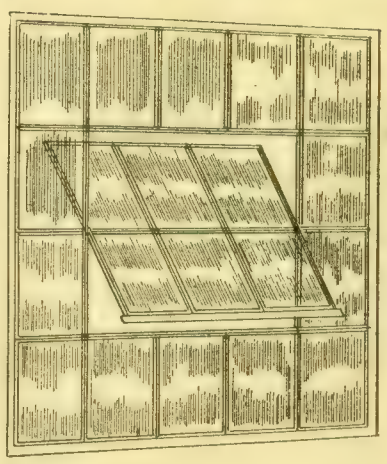
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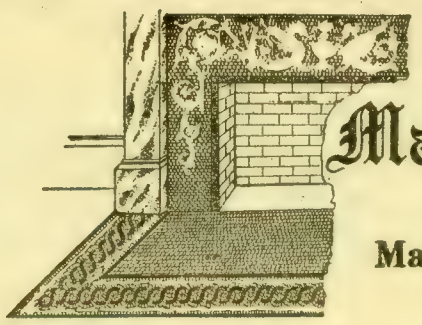
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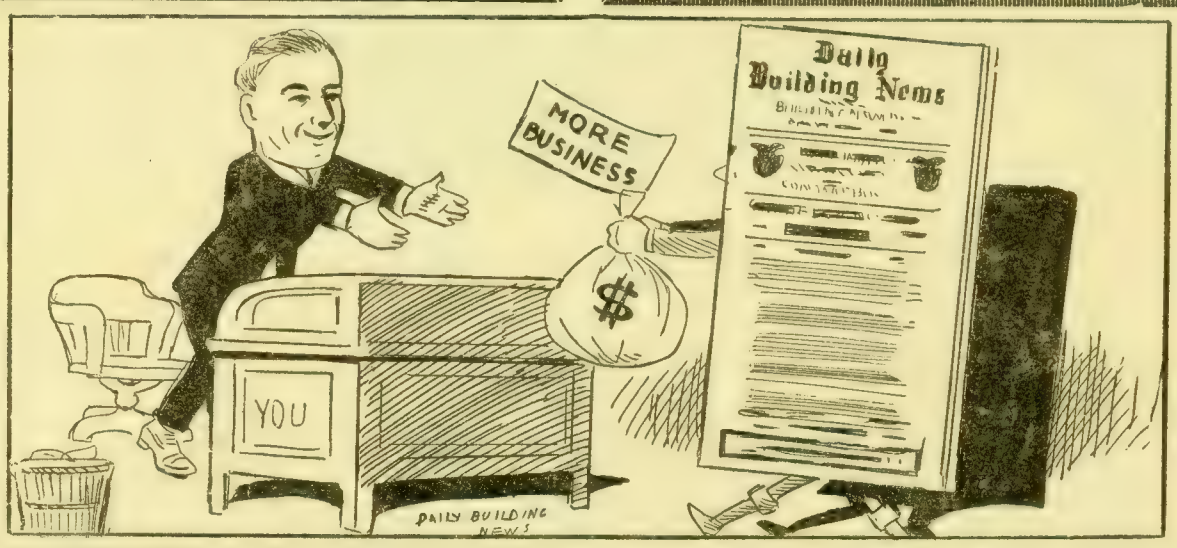
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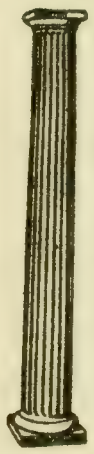
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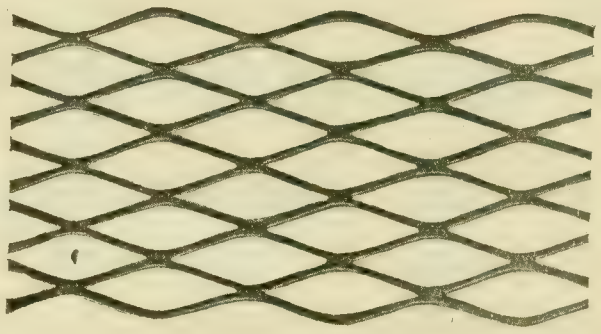


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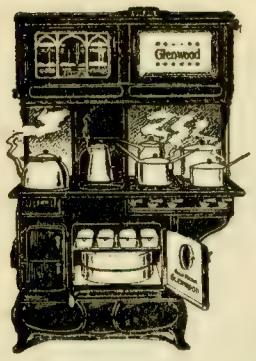
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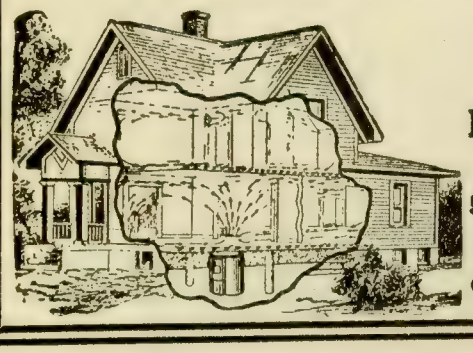
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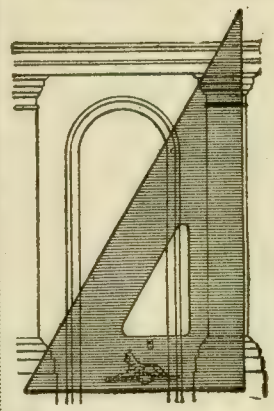
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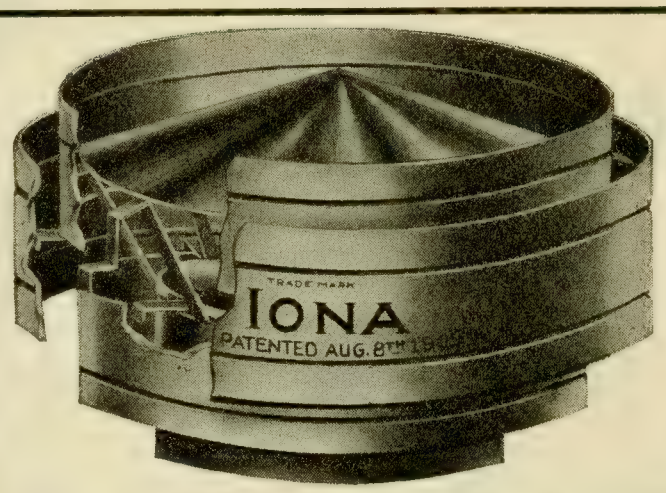
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November 1, 1922

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As The Editor Sees It

THE question of apprentices looms large on the horizon of the building industry. Skilled workmen are far too few to meet the demands of the present day building program, and in many cases, contractors have paid any price to get men to complete a job. Very often, in this day of money worship, a young man can think only of earning money quickly and will fail to realize the greater earning power which will eventually result from a thorough apprenticeship.

There is a lot of argument, says *The Clay Worker,* and mixed in with it an unnecessary amount of dissension on the subject of apprentices, trade schools, and how a young man is to acquire the necessary training in any skilled calling to qualify him as a skilled worker.

There is argument back and forth between official publications of employers' organizations and other official publications of unions of employes about the apprentice question. One side claiming that the unions are inclined to limit and restrict the number and thus put stumbling blocks in the way of progress especially in building trades. Some of the union papers on the other hand find flaws in the quick and intensive methods devised in connection with vocational schools for training skilled workers, and so the argument goes on without limit and without that kind of real enlightenment which we need at the present time. There is too much confusion and confuting argument and not enough effort apparent to point a clear and progressive way for the training of youngsters in whatever calling they may choose.

The average youngster of today hasn't the patient persistence of a generation or two ago. He does not like the idea of spending two or three years as an apprentice. Some say, too, that employers for the most part do not find it profitable to employ apprentices. The real answer here probably is that the employers do not find it profitable to employ an apprentice in the capacity and at the wages paid for the qualified skilled workman.

In most all trades and callings where a skilled man is required, there is usually also required the assistance of helpers. With the proper spirit of co-operation the skilled man can teach the helper the things he knows so that in the course of time the helper acquires real practical knowledge along with his experience that will qualify him without the long term of apprenticeship which used to be considered necessary.

There is a disposition to mingle with vocational training certain academic studies. We have on the one hand vocational training or manual training mixed in as a part of our schools. On the other there is a reaching out into industry and striving for a combination by means of which students can attend school so much and put in so much time at actual work under real industrial conditions and thus get a combination of schooling and training that will be good and will advance them more rapidly.

There is a third angle to this problem made up of introducing specific schooling and instructions as a part of industrial training along with the regular employment in industries of magnitude sufficient to make practical organized group effort of this kind. So we are really making some progress, and out of the various efforts and experiments we should get light and knowledge that will lead us to better things if we can just eliminate factional differences and that narrow selfishness which prevents a man seeing good in those things which he does not feel moved to advocate himself. In the training of youngsters as in the manufacturing itself progress is the order of the day and we should be able to shorten the time and increase the efficiency of our efforts by proper study and experiment and that is what we will get to eventually. And the sooner we stop bickering and show a more earnest effort all around for the general well being of humanity and the progress of industry the sooner we will attain a more satisfactory state of affairs in the training and qualifying of youngsters for skilled callings.

DRAWING MATERIALS

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CO-ORDINATING THE BUILDING TRADE

If the situation in the building trades of Philadelphia and its immediate vicinity is to be made easer, to the furthering of the interests of the city and the public and the advancement of building, both residences and business places, there must be co-ordination in the building trades, says H. J. Baringer, secretary of the Philadelphia Building Congress.

"This co-operation," says Mr. Baringer, "must be effected by men representing every one of the many and highly diversified trades, professions and activities which enter into all building operations, if it is to be made thoroughly efficient. Their main purpose must be an intensive study of economy in the building industry.

Idea Is Country-Wide

"This idea is by no means new. Organizations similar to ours already exist in New York, Boston and Seattle, where much has been accomplished. Our organization has attracted attention from other cities, and we have received requests for information as to our procedure from such large cities as Chicago, Detroit, Cleveland, Pittsburgh and others.

"The fundamental idea is to place the building industries on the highest possible plane of integrity and efficiency and to correlate all the efforts toward betterment now being made by single groups in these industries.

"All the component parts of these industries in Philadelphia and vicinity are being urged to participate. It is purely a conference association which handles its work through committees and is dedicated to the improvement of the service which these industries can give to the community.

"These component parts or groups are twelve in number, and are in conformance with the same groups as classified by the American Construction Council, of which Franklin D. Roosevelt is president. They are architects, engineers, general contractors, sub-constractors, construction labor, material and equipment manufacturers, material and equipment dealers, financial, surety, accounting, insurance, building and loan and real estate organizations. Besides these, there are also representatives of the great commercial organizations, such as the Chamber of Commerce and the Board of Trade, the public utility construction departments, representatives of the Federal, State, county and municipal bureaus and departments concerned with the construction associations of builders, the employers and the public.

Much Construction Under Way

"With approximately $100,000,000 worth of building construction under contract so far this year, and with the scarcity of craftsmen in nearly all lines and the present bidding for skilled help which is going on, it is easily seen that the building congress movement must appeal to those interested in the stabilization and betterment of these industries.

"The sole object of the local movement is to enable the building industries to promote the general welfare by discovering, through scientific surveys, the needs of the public and of the industry; by finding and recommending means of satisfying those needs; by defining group functions and harmonizing group activities through the formulation of codes of ethics and of practice; and by any other means agreeable to and in the interests of the public and the industry and conformable to law.

"It will be noticed that the rights of the public play an important part in the objects which the congress has set out to achieve. We believe that the day has passed when the public cannot be considered. It is the public that ultimately pays the bills for all such work and which occupies the buildings which are constructed, and it has a leading place in any deliberations as to ways and means concerning a thing in which it is so vitally interested as in the work of the building trades.

"The local congress now boasts a membership of about thirty representatives of the various trades involved in the movement, each of whom is actively interested in the work and who at present represent as individuals, all the component factors mentioned.

"The Executive Committee of the organization is now at work on a preliminary study of all available data concerning every phase of the several industries which go to make up the building trades, from the number of employes, accidents and deaths, the rate-and-man hour required in all the building crafts, up to and including the building requirements of every type of construction from a wagon shed to a modern office building.

"This material will later be analyzed by a special committee, which will coordinate and correlate all the data into one large picture of the facts and the requirements which confront the industry.

Building Codes Vary

"Take, for example, the variation in the building codes of various cities. In the matter of the erection of grandstands alone there is a divergence of from 20 to 120 pounds; that is, the requirements in one city will call for a stand which must be built to carry 120 pounds more than the requirements of another city. This leads to waste and added cost in construction, for it is apparent that there is no necessity for a stand to be built

(Continued on page 706)

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Printing and Publishing Buildings, Northwest Corner Fifty-sixth and Chestnut streets, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Chilton Co., Southeast Corner Forty-ninth and Market streets, Philadelphia. Reinforced concrete and brick, 2 stories and basement, 74x194 feet, and 1 story, 141x193 feet, slag roof, saw-tooth skylights, terra cotta, cut stone, steam heating, electric lighting, sprinkler system, elevators. Plans in progress.

Parochial School, Sixty-eighth and Lansdowne avenue, Philadelphia. Architect, Paul Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Callista's Roman Catholic Church, care of Rev. Daniel S. Connihan, on premises. Brick, cut stone and steel, 3 stories, 62x142 feet, composition roof, maple floors(electric lighting, metal lath, bond, iron work and stairs. Revised plans about completed. Architect will take new bids in a week.

Y. M. H. A. Building, Broad and Pine streets, Philadelphia. Architects, Frank E. Hahn, 1112 Chestnut street, and Paul P. Cret, Otis Building, Philadelphia. Owners, Y. M. H. A., Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia, chairman of Building Committee. Brick, steel and stone, 5 stories, 141x150 feet. Plans in progress. Architects will be ready for bids in a month.

Apartments (alts. and add.), 5135-37 Morris street, Germantown, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, William Hendrickson, care of architect. Stone, 3 stories, 20x50 feet. Preliminary plans in progress. Too early for details.

Store and Residence (alts. and add.), 267 South Fifty-second street. Architect, Sol. Kaplan, 929 Chestnut street, Philadelphia. Owner, A. H. Leskin, on premises. Brick, 2 story add., 15x16 feet, slag roof, general alterations, heating and electric extensions, metal bulks. Plans in progress.

Church and Sunday School, Fifty-fifth and Springfield avenue, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Woodland Avenue Methodist Episcopal Church, care of Rev. S. C. Carter, 1413 South Fiftieth street, Philadelphia. Stone. Preliminary plans being prepared. Will take bids early in 1923.

Bank Building, Sixty-fifth and Woodland avenue, Philadelphia. Architect, not yet selected. Owners, Woodland Avenue State Bank, care of C. V. Roberts, Roberts Filter Co., Sixth and Columbia avenue, Darby, Pa. Work contemplated. Owners receiving competitive plans.

Bank Building, 4826 Baltimore avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Belmont Trust Co., on premises. Brick and limestone, 1 story, 40x98 feet, slag roof, maple floors, steam heating, electric lighting. Plans about completed. Architect ready for bids in three weeks.

Bottling Plant, 1525-27 South Water street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Mountain Valley Water Co., on premises. Brick, slow burning construction, 1 story, 53x70 feet, slag roof, carpentry, plumbing, electric lighting. Architect is taking sub-bids.

Residences (68), Stores and Residences (4), Sixty-fifth to Sixty-sixth, on Paschall avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Levin Brothers, Commonwealth Building, Philadelphia. Brick, 2 stories, 15½x60 feet and 19x44 feet, slag roof, pine and hardwood floors, hot water heating, electric lighting, tile work, hollow metal sash, rolled steel skylights, flush bulks. Plans in progress. Owners are ready for sub-bids.

Dance Hall (alts.), Woodside Park, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, Woodside Realty Co., Woodside Park, Philadelphia. Frame, 1 story, carpentry, mill work, general alterations. Architect will take bids February, 1923.

Building (add.), 3430 Lancaster avenue, Philadelphia. Architect, James S. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owners, General Paper Products Co., on premises. Brick and steel, 2 stories, 68x30 feet, slag roof, cement floors, rolled steel sash and skylights, plate glass, iron work (heating, plumbing and electric work reserved). Owners, care of George L. Harnly, on premises, will build and are taking sub-bids on brick work, carpentry and slag roof.

South Penn Square Building (alts.), Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Finance Co. of America, 1505 Arch street, Philadelphia. Carpentry, structural steel, concrete and cement work, cut stone, brick work, caulking, slag roof, hollow tile, metal lath, terra cotta, iron work, steel stairs, bond, hollow metal doors, hollow metal sash, tile, marble and terrazzo work, demolition. Architects taking sub-bids.

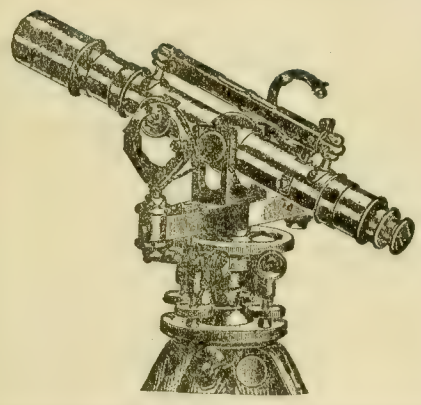
Garage, 6334 Sherwood road, Overbrook, Philadelphia. Architects, De Armond, Ashmead and Bickley, Franklin Trust Building, Philadelphia. Owner, George J. De Armond, on premises. Stone, 2 stories, 20x22 feet, asbestos shingle roof, cement and pine floors, central steam heating, electric lighting, plumbing. Owner will build.

Store and Residences (alts. and add.), 329 South Fifth street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, I. J. Abramson, on premises. General alterations, electric light, tile and marble work, hardwood and pine floors, metal lath, store fixtures, metal bulks, iron work. Owner is taking bids.

Residences (2) (alts. and add.), 750-52 South Martin street, Philadelphia. Architect, C. Henry Wilson, 2028 Berks street, Philadelphia. Owner, George W. Smith, 750 South Martin street, Philadelphia. Brick, 3 stories, 32x27 feet, slag roof, hardwood floors, metal lath, plastering, hot water heat, electric light, tile work. Owner is ready for bids.

Garage and Shop (alts. and add.), 2035 Webster street, Philadelphia. Architect, C. Henry Wilson, 2028 Berks street, Philadelphia. Owner, Theodore Richardson, Southwest Corner Nineteenth and Wharton streets. Brick, 2 stories, 16x37 feet, slag roof, cement and hardwood floors, metal ceilings, steam heat, electric lighting, plumbing, iron work. Owner is ready for sub-bids.

Apartments (alts. and add.), 1611-13 Bainbridge street, Philadelphia. Architect, C. Henry Wilson, 2028 Berks street, Philadelphia. Owner, G. Edward Dickerson, 628



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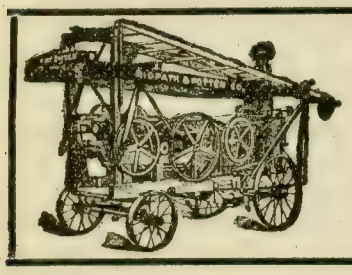
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Schools, (9) Ninth and Oregon avenue, Germantown and Southampton avenues, and Third and Duncannon streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, granite, reinforced concrete and steel, 3 stories, 219x98 feet, 3 stories, 219x109 feet, and 3 stories, 212x110 feet, respectively, slag roof, cement, maple and asphalt mastic floors, hollow tile, waterproofing, terra cotta, iron work, bond, hollow metal doors, rolled steel skylights, hollow metal sash, marble work (heating, electric work and plumbing separate bids.) Owners taking bids due November 9th.

Loft Building, Philadelphia. Architect, Frederick Webber, Morris Building, Philadelphia. Owner, name withheld. Reinforced concrete, limestone and brick, terra cotta and steel, 8 stories, 95x80 feet, slag roof, cement and maple floors, metal lath, elevators, iron work, bond, fire doors, rolled steel skylights, hollow metal sash, tile and marble work, electric lighting, steam heating, demolition. Architect taking approximate bids.

Residence, Locust avenue and Magnolia street, Philadelphia. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owner, Douglass Oliver, care of architect. Stone, 2½ stories, 31x50 feet, shingle (alternate slate) roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Architect taking bids due November 7th.

Church and Sunday School, Lombard and Van Pelt streets, Philadelphia. Architects, Druckenmiller & Williams, 1537 Chestnut street. Owners, Central Baptist Church, on premises. Brick, stone, cut stone and steel, 1 story and basement, 96x64 feet, slag roof, reinforced concrete and maple floors, metal lath, dampproofing, bond, tile work, steam heating, electric lighting, demolition. Architects taking bids due November 2nd.

Residence and Garage, Forty-seventh and Pine streets, Philadelphia. Architect, J. L. Connaroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Brick and steel, 2½ stories, 57x33 feet, slate roof, composition and pine and oak floors, metal lath, sheet rock, hot water heating, electric lighting, tile work. Architect taking bids due November 9th.

Church, Mt. Airy avenue and Boyer street, Chestnut Hill, Philadelphia. Architects, Henry D. Dagit Sons & Co., 34 South Seventeenth street, Philadelphia. Owners, Holy Cross Roman Catholic Church, Rev. Joseph A. McCullough, rector, on premises. Architect taking bids due November 15th.

Residences (26), North side Florence avenue, Fifty-sixth to Fifty-seventh streets, $184,000. Owners, Kenin & Shapiro, 5850 Market street, Philadelphia. Brick, 2 stories, 19x35 feet, slag roof, hot water heating, electric lighting, oak and pine floors. Owners will build.

Residences (13), Store and Residence (1), Torresdale avenue, South of Margaret street, Philadelphia, $56,800. Architect, private plans. Owners, Fishman & Fort, 2011 South Fifth street, Philadelphia. Brick, 2 stories, 16x33 feet and 16x50 feet, hot water heating, electric lighting. Owners will build.

Residences and Garages (26), West side Seventh street, North of Louden street, $146,000. Architect, private plans. Owner, John Tucker, 312 Christian street, Philadelphia. Brick, 2 stories, 15x30 feet, 13x10 feet, (2) 16x40 feet, hot water heating, electric lighting. Owner will build.

Residences (8), 5747-61 Penn street, Philadelphia, $5,000 each. Architect, private plans. Owner, William Robinson, 7319 Rising Sun avenue, Philadelphia. Brick, 2 stories, 20x30 feet, hot water heat, electric light. Owner will build.

Residences and Garages (9), Residences and Stores (8), Mascher and Wyoming streets, Philadelphia, $95,500. Architect, private plans. Owners, Morrison, Clemence & Segal, 2918 Wharton street, Philadelphia. Brick, 2 stories, 16x48 feet, 19x58 feet, 15x32 feet, 12x10 feet and 16x43 feet, 12x10 feet, slag roof, oak and pine floors, electric lighting. Owners will build.

Residences (14), West side Ogontz avenue, Church Lane to Spencer street, Philadelphia, $72,000. Architect, private plans. Owner, William T. Clark, 1622 North Broad street, Philadelphia. Brick, 2 stories, 15x31 feet, 12x11 feet, hot water heating, electric lighting, oak and pine floors. Owner will build.

Residence and Store (1) and Residences (4), Northeast Corner Markle ond Mitchell streets ,$20,500. Architect, private plans. Owner, Louis G. Missimer, North side Hermit Lane, West of Ridge avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (6), Robbins avenue, West of Argyle street, $4,000 each. Architect, private plans. Owner, M. H. Riegel, 337 East Chelten avenue, Philadelphia. Brick, 2 stories, 17x31 feet, slag roof, electric lighting, hot water heating. Owner will build.

Residences (2), West side Pechin street, North of Markle street, $4,000 each. Architect, private plans. Owners, Brown Const. Co., 105 Levering street, Philadelphia. Brick, 2 stories, 15x42 feet, slag roof, electric lighting, hot water heating. Owner will build.

Garage, 5448 Arch street (rear), Philadelphia, $7,500. Architect, private plans. Owner, R. H. Hagen, 259 North Fifteenth street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, steam heat, electric light. Owner will build.

Residence, South side Shelmire street, West of Montour, $6,400. Architect, private plans. Owner, T. Herbert Morris, 7414 Bingham street, Philadelphia. Frame, 2 stories, 26x34 feet, shingle roof, electric lighting, oak and pine floors. Owner will build.

Residences (2), East side Laundale avenue, South of Cottman, $4,500 each. Architect, private plans. Owner, Maurice L. Quinlan, 7411 Laundale avenue, Philadelphia. Brick, 2 stories, 16x35½ feet, slag roof, hot water heat, electric lighting. Owner will build.

Residences (10), South side Tulpehocken street, West of Bellfield, $4,500 each. Architect, private plans. Owners, Hannahan & Haney, Fifth and Somerset streets, Philadelphia. Brick, 2 stories, 16x29 feet, 12x10 feet, slag roof, hot water heat, electric light. Owners will build.

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Residences (3), South side Eastwick avenue, West of Eighty-third street, $4,000 each. Architect, private plans. Owner, Joseph Altzman, 8324 Eastwick avenue, Philadelphia. Brick, 2 stories, 16x36 feet and 16x26 feet, 12x10 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (2), West side Cottage street, South of Devereaux, $3,600 each. Architect, private plans. Owner, Fred W. Deitrich, Northeast Corner Frankford avenue and Devereaux street. Brick, 2 stories, 16x34 feet, slag roof, electric lighting, hot water heating. Owner will build.

Garage, 524-26 North Thirty-seventh street, Philadelphia, $2,000. Architect, private plans. Owner, Anthony Gallagher, 3700 Haverford avenue, Philadelphia. Brick, 1 story, 46x49 feet, slag roof, cement floors. Owner will build.

Johnson House (alts.), 510 South Broad street, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, City Hall, Philadelphia. Lowest bidders: George Dobbin, 1020 South Forty-seventh street, Philadelphia: Items A, $24,000; B, $22,000; C, $23,500; D, $21,000. George H. Evans, Inc., 109 North Thirteenth street, Philadelphia: Items A, $24,900; B, $22,140; C, $24,430; D, $21,630. Heating—Jacob Bugger, 2124 East Cumberland street, $796. Jacob Bugger, 2124 East Cumberland street, plumbing, $1,795.

Miscellaneous Work, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, City Hall. Owners taking bids due October 31st.

Grading—Bridge street, Summerdale avenue to Langdon street; Bingham street, Roberts to Levic street; Bouvier street, Sixty-seventh avenue to Sixty-eighth avenue; Clarkson street, Rising Sun avenue to Olney street; Eastburn avenue, Wister street to Gerry street; Sydenham street, Fisher to Sommerville avenue; Ellet street, McCallum street to Greene street.

Asphalt Paving—Annsbury street, Fourth street to Fifth street; Chew street, Twelfth street to Thirteenth street; Delphine street, Third to Fourth street; Gale street, Front street to Mascher street; Lindley street, Second to Third street; Luray street, Rising Sun avenue to Palethorpe street; Seventeenth street, Rockland street to Ruscomb street; Sixty-seventh avenue, Ogontz avenue to Twentieth street.

Vitrified Block Paving—Estaug street, Mascher to Palethorpe street.

Grading and Paving—Lansdowne avenue, Sixty-sixth street to Haverford avenue; Pennsgrove street, Fifty-fourth street to Fifty-fifth street.

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Construction of radial brick chimney for garbage reduction plant, 150 feet high, 20 feet 6 inches diameter at bottom, 6 feet diameter at top. Foundation to rest on concrete piles.

Residences (alts. and add.), 1914-16 Panama street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. James A. Mitchell, care of architect. Brick and steel, carpentry, mill work, slag roof (heating reserved), plumbing, painting, bond, iron work. Architect taking bids due November 1st.

Kindergarten Building, Coulter street, Germantown, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Coulter Street Meeting House, on premises. Brick, 1 story. Plans in progress.

Residences and Garages (4), Northwest Corner Sparks and Ogontz, Southwest Corner Limekiln and Ogontz, Northwest Corner Spencer and Ogontz, and Southwest Corner Sparks and Ogontz, Philadelphia, $24,000. Owner, J. M. Faust, 4611 North Broad street, Philadelphia. Brick, 3 stories, 16x42 feet and 15x42 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (15), West side Ogontz, North of Spencer street, $5,000 each. Architect, private plans. Owner, J. M. Faust, 4611 North Broad street, Philadelphia. Brick, 2 stories, 15x32 feet, 12x17 feet, hot water heating, electric lighting. Owner will build.

Residence and Garage, Southwest Corner Tyson and Cottage streets, $6,850. Architect, private plans. Owner, E. A. France, 6949 Tulip street, Philadelphia. Brick, 2 stories, 18x44 feet, slag roof, hot water heat, electric light. Owner will build.

Apartment House, Northwest Corner Nineteenth and Walnut streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, R. A. Heymann, Widener Building, Philadelphia. Brick, stone, concrete and steel. Too early for details.

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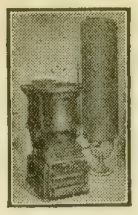
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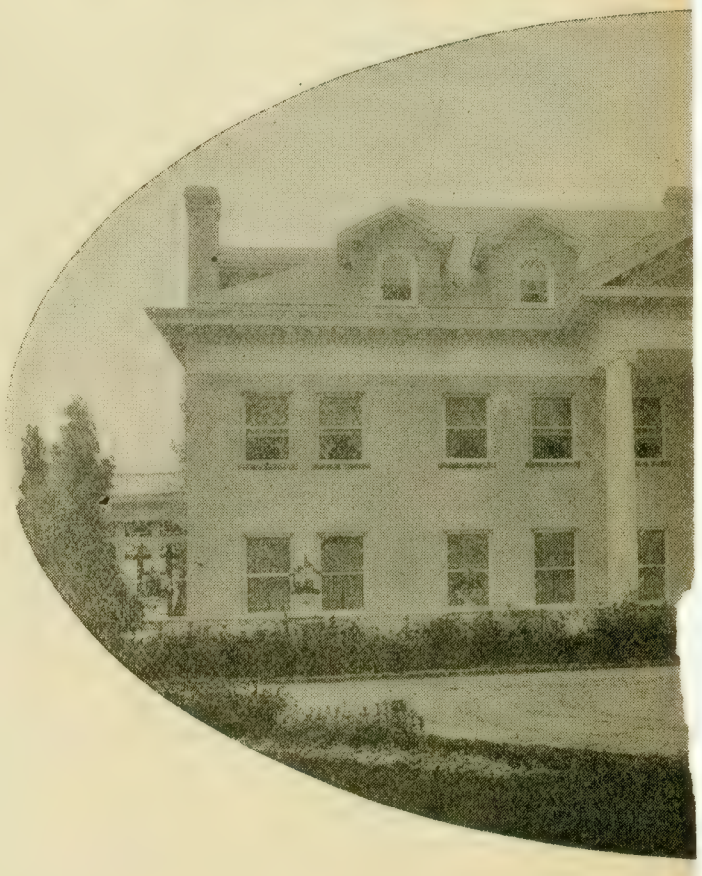
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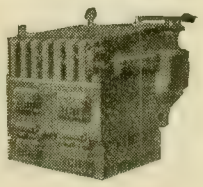
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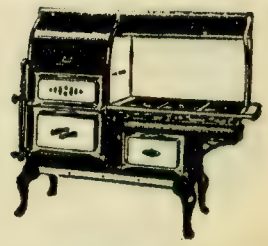
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Church and Sunday School (alts.), Susquehanna avenue and Hancock street, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Norris Square United Presbyterian Church, Rev. Lee E. Rife, 2136 North Hancock street, Charles T. Earley, 2335 Frankford avenue, chairman Building Committee. Changing basement into gymnasium, excavation, reinforcing beams, concrete work, etc. Plans in progress. Architect will take bids in two weeks.

Nurses' Home, 1427 South Fifth street, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owners, Mt. Sinai Hospital, on premises. Brick, 4 stories. Sketches drawn. Preliminary plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Dairy Building, Norhwest Corner Sixteenth and Tasker streets, Philadelphia. Architects, Stuckert Co., Crozer Building, Philadelphia. Owners, Dolfinger Standard Dairies, on premises. Brick, reinforced concrete and cut stone, 2 stories and basement and balcony, 72x70 feet, asbestos asphalt roof, concrete and asphalt floors, metal lath, waterproofing, iron work, bond, rolling steel doors, demolition (electric work, cork insulation and elevators reserved). Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Office Building, 1518-1520 Locust street, Philadelphia. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owners, David B. Bassett and Ralph E. Bassett, care of architect. Brick, steel and concrete, 3 stories, 40x50 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

Residence and Garage, Chestnut Hill, Philadelphia, $55,000. Architects, Willing, Sims & Talbutt, 1627 Sansom street, Philadelphia. Owner, Richard T. Nalle, Chestnut Hill, Philadelphia. Stone and cut stone, 2½ and 1½ stories, 85x40 feet and 25x26 feet, shingle roof, oak, pine and cement floors, tile work, bond, iron work (heating, plumbing and electric work reserved). Contract awarded to E. Allen Reeves, Inc., Abington, Pa.

Store, Office Building and Apartments (alts.), Southeast Corner Sixth and Girard avenue, $10,000. Architects, Rehfuss & North, 10 South Eighteenth street, Philadelphia. Owner, Fred W. Haussmann, 534 West Girard avenue, Philadelphia. Carpentry, mill work, painting, glazing, electric work, plumbing, tile work, metal ceilings, bulks. Contract awarded to George Gemunden, 4265 North Seventh street, Philadelphia.

Residence (alts.), 1719 Walnut street, Philadelphia. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Dr. F. X. Dercum, on premises. Alterations to skylight and bay window. Contract awarded to A. H. Spenard, 822 Wood street, Philadelphia.

Store and Residence, 1510 Fairmount avenue, Philadelphia. Architect, Salvator J. Gritti, 817 North Sixteenth street, Philadelphia. Owner, Kurwin T. Gross, care of architect. Brick, 3 stories, 16x64 feet, slag roof, hardwood floors, metal lath, hot water heat, electric light, tile work. Contract awarded to George E. Gross, 1613 Chestnut street.

Garage, 1433-37 Parrish street, Philadelphia, $35,000. Architect, H. B. Weldon, 10 South Eighteenth street, Philadelphia. Owner, Louis J. Kolb, Tenth and Reed streets, Philadelphia. Brick and steel, 1 story, 175x200 feet, slag roof, cement floors, steam heat, electric lighting, rolled steel sash. Contract awarded to William G. Uhlers' Sons, 1909 McKean street, Philadelphia.

Residence, Chestnut Hill, Philadelphia, $29,500. Architect, Roberts Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, Levis L. Mann, North American Building, Philadelphia. Stone, 2½ stories, 75x33 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile and iron work. Contract awarded to George S. Roth & Son, 230 East Graver's Lane.

Entrance to Building (alts.), Fifth and Glenwood avenue, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, S. L. Allen & Co., on premises. Carpentry, mill work, cement work, iron work. Contract awarded to Frank G. English, 1610 North Carlisle street, Philadelphia.

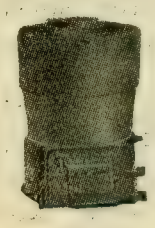
Bottling Plant, 1525-27 South Water street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Mountain Valley Water Co., on premises. Brick, slow burning, 1 story, 53x70 feet, slag roof, carpentry, plumbing, electric lighting. Contract awarded to Girard Realty & Const. Co., 3220 Columbia avenue, Philadelphia.

Store and Apartment (alts.), Twenty-third and Aspen streets, Philadelphia. Architect, Frank V. Nickels, 15 S. Twenty-first street, Philadelphia. Owner, name withheld. Slag roof, tile work, hot water heating, electric lighting, plastering, general interior alterations. Contract awarded to George W. Wagoner, 2032 Rittenhouse street.

Church (alts.), 21 South Tenth street, Philadelphia, $10,000. Architect, private plans. Owners, St. Stephen's Church, on premises. General alterations. Contract awarded to A. Raymond Raff Cont. Co., 1635 Thompson street.

Shelter Shed, Northwest Corner Wissahickon and Hunting Park avenues, $6,000. Architect, private plans. Owners, E. T. Budd Mfg. Co., on premises. Iron, 1 story, 16x400 feet, corrugated iron, cement floors. Contract awarded to Robinson Iron & Steel, Manayunk, Philadelphia.

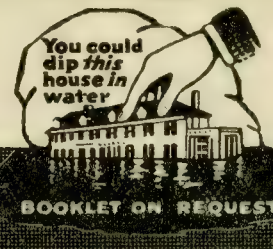
Residence, Northeast Corner Claridge and Shelmire streets, $8,000. Architect, private



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plans. Owner, Frank J. Braig, 2950 North Hancock street, Philadelphia. Brick, 20x35 feet, slag roof, electric lighting. Contract awarded to Harold E. Miller, 2528 Coral street.

Building (alts. and add.), 604 North Twenty-first street, $10,000. Architect, private plans. Owner, George W. Robinson, Shamokin, Pa. Brick, 1 story add., 3x12 feet, 15x12 feet, slag roof, steam heating, electric lighting, maple floors, general alterations. Contract awarded to John N. Gill Const. Co., 112 South Sixteenth street.

Residence, 7225 Bingham street, Philadelphia, $6,000. Architect, private plans. Owner, W. Muer, 5231 North Sixth street, Philadelphia. Brick, 2 stories, 20x30 feet, slag roof, oak and pine floors, hot water heating, electric lighting. Contract awarded to William Robinson, 7319 Rising Sun avenue.

Store, 135 North Eleventh street, Philadelphia, $5,685. Architect, private plans. Owner, G. Victor, 1710 North Twenty-ninth street, Philadelphia. Brick, 1 story, 16x57 feet, slag roof, electric lighting. Contract awarded to F. I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Stores (alts.), 1831 Chestnut street, Philadelphia, $5,000. Architect, private plans. Owner, S. Willig, 407 Lincoln Building, Philadelphia. General alterations. Contract awarded to Harry Platt, 1701 Chestnut street.

Residences (4), West side Brynton street, North of Penn street, $5,000 each. Architect, private plans. Owner, William C. Wetherstein, 124 East Upsal street, Philadelphia. Brick, 2 stories, 32x19 feet, 16x7 feet, electric lighting, oak and pine floors. Contract awarded to H. C. Wetherstein, 124 East Upsal street, Philadelphia.

Warehouse (alts.), Northwest Corner Eleventh and Washington avenue, $5,000. Architect, private plans. Owners, Curtis Publishing Co., Sixth and Walnut streets, Philadelphia. General fire repairs. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Office, South side Ford road, West of Monument avenue, $5,000. Architect, private plans. Owners, Woodside Real Estate Co., on premises. Brick, 1 story, 25x50 feet, slag roof, electric light, pine floors. Contract awarded to Edward T. Bender, 6014 Torresdale avenue.

Building (alts. and add.), 3335 Walnut street, Philadelphia, $4,500. Architect, private plans. Owner, H. M. Temorsin, 5150 Hazel avenue, Philadelphia. Brick, 1 story, 20x32 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Frank R. Bilotte, Southeast Corner Seventh and Christian streets, Philadelphia.

Residence and Store (add.), Sydenham and Dauphin streets, $2,300. Architect, private plans. Owner, W. Kennedy, on premises. Brick, 3 stories add., 16x18 feet, slag roof, electric work. Contract awarded to D. J. McNamee, 1621 North Fifteenth street, Philadelphia.

Warehouse, Northwest Corner Delaware avenue and Venango street, $25,000. Architect, C. O. Conklin, Jr., Witherspoon Building, Philadelphia. Owners, M. L. Shoemaker & Co., on premises. Steel and asbestos, 1 story, 84x200 feet. Contract awarded to Morris Wheeler & Co., Thirtieth and Locust streets.

Building (add.), 1345 Lombard street, Philadelphia, $4,000. Architect, private plans. Owner, Mrs. Helen S. Bayton, 1840 Christian street, Philadelphia. Brick, 1 story, 11x33 feet, slag roof, electric light. Contract awarded to S. H. Bythewood, 1709 Christian street.

Residence, West side Laundale avenue, North of Shelmire, $4,000. Architect, private plans. Owner, Mr. Wilcutts, 7900 Oxford Pike, Philadelphia. Frame, 2 stories, 29x21 feet, shingle roof, electric lighting. Contract awarded to William A. Kitchen, 845 Gilham street, Philadelphia.

Residence (alts.), 2202 West Tioga street, Philadelphia, $4,000. Architect, private plans. Owner, Mrs. A. K. Stines, on premises. General alterations. Contract awarded to Joseph S. Tomlinson, 1710 West Tioga street.

Cafe (alts.), 1432 Market street, Philadelphia, $4,000. Architect, private plans. Owner, Charles N. Pappas, on premises. General alterations. Contract awarded to John Dunnear, 920 Walnut street, Philadelphia.

Residences (2), North side Gilham street, West of Hasbrook, $3,500 each. Architect, private plans. Owner, George J. Hellerman, Holmesburg, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating. Contract awarded to H. Stout, Cheltenham, Pa.

Residence and Store (alts.), 326 North Eighth street, $2,500. Architect, private plans. Owner, John Batter, Northwest Corner Fourth and Pine streets, Philadelphia. General fire repairs. Contract awarded to L. Cohen, 417 Christian street, Philadelphia.

Residence (add.), 5125 Sansom street, Philadelphia, $3,700. Architect, private plans. Owner, James L. Duffy, on premises. Brick, second story add., 36x54 feet, slag roof, pine floors. Contract awarded to Harry G. Walton, 412 North Fortieth street.

Residence, Southwest Corner Eighty-fifth and Grover's avenue, Philadelphia, $3,500. Architect, private plans. Owner, Andrew Krotendin, on premises. Brick, 1 story, 20x30 feet (add.), slag roof, electric lighting. Contract awarded to Charles Kirshner, 7425 Buist avenue, Philadelphia.

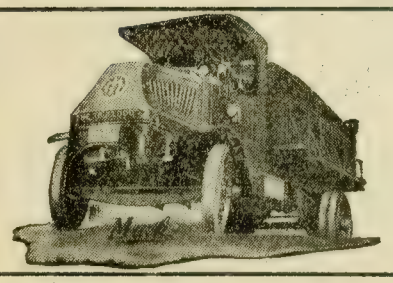
Residence, East side Williams street, North of Upsal street, $3,450. Architect, private plans. Owner, Casper Guyer, 6337 Norwood avenue, Philadelphia. Brick, 2 stories, 19x28 feet (add.), slag roof, electric lighting. Contract awarded to Percy W. St. John, 5835 Wissahickon avenue.

Office and Store (alts. and add.), 321 East Girard avenue, $3,000. Architect, private plans. Owner, Mr. Lusman, 607 West Girard avenue, Philadelphia. Brick, 1 story, 20x12 feet, slag roof, electric lighting, general alterations. Contract awarded to Shectman Brothers, 5040 North Sixth street, Philadelphia.

Residence (add.), 8409 Navahoe street, Philadelphia, $2,000. Architect, private plans. Owner, Mrs. Henry McCall, on premises. Brick, 1 story, 14x20 feet, slag roof, electric lighting. Contract awarded to Stokes Brothers, 6723 Musgrave street, Philadelphia.

Building (add.), Northeast Corner Twenty-sixth and Latona streets, $2,500. Architect, private plans. Owner, Mr. Rosenfield, Southwest Corner Twenty-sixth and Latona streets. Brick, 2 stories, 9x16 feet 9 inches, slag roof, pine floors, electric work. Contract awarded to D. Rosenberger, 2510 South Eighth street, Philadelphia.

Building (add. and alts.), 5205 Market street, Philadelphia, $2,485. Architect, private plans. Owners, Tessi & Linton, 1706 Market street, Philadelphia. Brick, 1 story, 12x6 feet, slag roof, pine floors, electric work.



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Contract awarded to Warren Brothers, 1113 Cherry street, Philadelphia.

Building (alts.), Southeast Corner Spencer and Stenton avenues, $2,200. Architect, private plans. Owner, Frank Blumhardt, 3841 North Fifth street, Philadelphia. General alterations. Contract awarded to Fred Riccari, 560 Rising Sun avenue.

Building (alts.), 3623 Germantown avenue, Philadelphia, $2,000. Architect, private plans. Owner, Harry Buehle, on premises. General alterations. Contract awarded to H. Shubakow, 2552 South Ninth street, Philadelphia.

Building (add.), 2217-19 North Leithgow street, Philadelphia, $2,000. Architect, private plans. Owners, C. F. Ganbris Sons, 2220 North Fourth street, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, pine floors. Contract awarded to Henry Hofmaier, 2247 North Fifth street, Philadelphia.

Residence (alts. and add.), 662 North Fifty-second street, Philadelhpia, $2,000. Architect, private plans. Owner, Mrs. Y. Rubin, on premises. Brick, 2 stories add., 15x9 feet, slag roof, general alterations. Contract awarded to Sol. Kravtiz, 535 South Fifty-seventh street, Philadelphia.

Building (alts.), 1108 Germantown avenue, Philadelphia, $2,000. Architect, private plans. Owner, J. J. Weiswasser, 1120 Germantown avenue, Philadelphia. General alterations. Contract awarded to Charles S. Johnston & Sons, 5600 Germantown avenue, Philadelphia.

Building, Twelfth and Bainbridge streets, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, E. Whitehill, 515 Market street, Philadelphia. Contract awarded to J. Getzik, 511 South street, Philadelphia.

United States Mail Facilities, Reading Terminal, Philadelphia, $20,800. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading R. R. Co., on premises. Brick, steel and cut stone, 99x73 feet, wood block and asphalt floors, metal lath, elevator, bond, demolition. Contract awarded to Charles C. Pace, Merion, Pa.

Residence, East side Rising Sun avenue, South of Clarkson avenue, $4,000. Architect, private plans. Owner, L. E. Boekenkamp, 208 Boulevard, Philadelphia. Frame, 2 stories, 26x32 feet, electric lighting. Contract awarded to Beam Const. Co., Elmwood and Hobson streets.

Residence, West side Veree road, West of Oxford avenue, $3,000. Architect, private plans. Owner, J. A. Futh, care of builders. Frame, 1 story, 26x32 feet, electric light, pine floors. Contract awarded to Beam Const. Co., Elmwood avenue and Hobson street.

Garage (add.), 603 North Sixty-eighth street, Philadelphia, $2,000. Architect, private plans. Owner, Peter M. Kearney, 605 North Sixty-eighth street, Philadelphia. Brick, 1 story, 53x40 feet, slag roof, cement floors, electric work. Contract awarded to John P. Kearney, 6601 Leeds street, Philadelphia.

Many a man would do a better job if he didn't know about putty.—Ex.

PENNSYLVANIA Construction News

Office, Sixth and Maclay streets, Harrisburg, Pa., $1,000,000. Architect, C. Harry Kain, 317 Chestnut street, Harrisburg, Pa. Owners, Brotherhood Relief and Compensation Fund, Inc., care of F. G. Smith, 271 Broad street, Harrisburg, Pa. Steel, fireproof, 12 stories, to consist of bank, stores, cafe, offices, shops, lodge rooms and convention hall. Plans in progress. Too early for details. (Note architect.)

Residence, Penfield, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Lewis Street, care of architect. Stone, 2½ stories, 27x40 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

Parochial School and Convent, Ridley Park, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, St. Madeline's Roman Catholic Church, Rev. William J. McCallen, Ridley Park, Pa. Stone and steel, 2 stories and auditorium, 69x52 feet, wing 26x40 feet, slag roof, hot water heating, electric lighting, composition floors, bond. Plans in progress. Architect will take bids in one month.

Private Museum and Art Gallery, Merion, Pa. Architect, Paul P. Cret, Otis Building, Philadelphia. Owner, Dr. Albert C. Barnes, Merion, Pa. Stone, brick and steel. Preliminary plans in progress. Too early for details.

Residence, Bywood, Pa. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 36x48 feet, shingle roof, hardwood floors, metal lath, cement work, hot water heating, electric light, tile work. Plans completed. Architects will take bids in a few days.

Central Office and Exchange Building, Pine and Court streets, Harrisburg, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, steel and concrete, 105x210 feet. Preliminary plans in progress.

Factory, Galitzen, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owner, care of architects. Brick, mill construction, 1 story, 75x100 feet, slag roof, pine floors, steam heat, electric light, rolled steel sash and skylights, roof ventilators. Preliminary plans in progress.

Residence (alts. and add.) to Apartment, East King street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Dr. S. W. Miller, on premises. Brick, 2 stories, 15x20 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Bank (alts.), Millersburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, First National Bank, care of architect. General interior alterations, composition and tile floors. Plans in progress.

Residences, Nos. 1, 2, 3, Haverford School Grounds, Haverford, Pa. Architects, Bailey & Bassett, 421 Chestnut st., Phila. Owners, A. W. Palmer, Lester B. Tyler and Herbert J. Wyckoff, care of architects. Hollow tile, stucco (alternate for stone), 2½ stories, 39x26 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile work, bond, iron work. Architects taking bids due November 3rd.

Factory, York, Pa. Architect, R. R. Markley, 9 North Market street, Harrisburg, Pa. Owners, Auto Specialty Co., York, Pa. Steel, brick, concrete, 4 stories, 103x63 feet, built-up roof, concrete floors, hollow tile, electric lighting, rolled steel sash, fire doors, waterproofing, dampproofing. Owner will sub-let.

Stores (2), Easton road, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Alexander Thomson, Glenside, Pa. Brick, 2 stories, 36x41 feet, slag roof, hot water heating, electric lighting, pine and hardwood floors, metal bulks. Owner will build and is taking sub-bids.

Residence, Camp Hill, Pa. Architects, Lawrie-Green Co., Commonwealth Building, Harrisburg. Owner, C. A. Stakley, Washington Heights, Camp Hill, Pa. Brick, 2 stories, 28x30 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids.

Stores (4) and Garage, Fifth and Main streets, Darby, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Harry Swope, Darby, Pa. Brick, 2 stories, 19x45 feet and 62x50 feet, slag roof, rolling steel and fire doors, terra cotta, electric lighting, metal lath, elevator, metal bulks, plate glass, marble and mineral floors, hot water heating, pipeless heaters. Architect taking bids due November 3rd.

Factory, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Hubley Mfg. Co., Plum and Elizabeth avenue, Lancaster. Mill construction, 4 stories, 60x185 feet, slag roof, maple floors, electric light (heating extension), waterproofing and dampproofing, fire doors. Architect taking bids due as soon as possible.

Residence, Bentley road, Cynwyd, Pa. Architect, private plans. Owner, Mrs. M. C. Rawlings, 5615 Kingsessing avenue, Philadelphia. Frame and stucco, 2 stories, 22x30 feet, shingle roof, pine and oak floors, hot air heating, electric lighting. Bids due November 2nd.

South High School, Junior-Senior Annex, Pittsburgh, Pa. Architect, Edward Stotz, Pittsburgh, Pa. Owners, Board of Education, Pittsburgh, Pa. Brick, concrete and steel, 3 stories, basement and sub-basement, 160x135 feet, composition roof, maple, cement, composition, cork floors, metal lath, waterproofing, iron work and stairs, hollow metal sash, tile, marble and terrazzo work (heating, electric work and plumbing separate bids). Bids due November 2nd.

Cottage, St. David's, Pa. Architect, Louis S. Adams, 1703 Chestnut street, Philadelphia. Owner, A. G. Rosengarten, Ninth and Parrish streets, Philadelphia. Frame and stucco, 2½ stories, 34x15 feet ,slate roof, oak and pine floors, pipeless heater, electric lighting, iron work. Architect taking bids due November 2nd.

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Pennsylvania Contracts Awarded

School, Mount Penn, Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owners, Mt. Penn School Board, W. Edgar Bates, secretary, Mt. Penn, Reading, Pa. Brick, 1 and 2 stories, 38x160 feet, Spanish tile roof, maple floors (heating, plumbing and electric work reserved), hollow tile, roof ventilators, waterproofing, dampproofing. Contract awarded to Charles Schlegel, 2250 Perkiomen avenue, Reading, Pa. Plumbing to Corbit Brothers, 45 North Fourth street, Reading, Pa. Electric to Reading Elec. Co., 503 Penn street, Reading, Pa. Heating and ventilating to National Heating & Ventilating Co., Drexel Building, Philadelphia.

Junior High School, Altoona, Pa., $551,714. Architect, Julien Millard, Altoona, Pa. Owners, Altoona Board of Education, Altoona, Pa. Brick, cut stone and steel, 3 stories, 221x233 feet, composition roof, mastic and maple floors, hollow tile, metal weather strips, iron stairs and work, hollow metal doors, tile and marble work ,rolled steel sash, metal lath (heating, electric work and plumbing separate bids). Contract awarded to H. J. Conrath, Erie, Pa.

Bank (alts. and add.), East Downingtown, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Downingtown National Bank, care of Mr. T. Downing, president, East Downingtown, Pa. Reinforced concrete, structural steel, marble, 2 stories, cut stone, cork, tile and linoleum floors, electric light, tile, marble and terrazzo work, hollow metal sash and skylights, bank fixtures, vault doors. Contract awarded to George H. Fisher, Washington avenue and Beech Alley, East Downingtown, Pa.

Rectory, Strafford, Pa., $25,000. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owners, Roman Catholic Church of Our Lady of the Assumption, Strafford, Pa. Stone, 3 stories, 44x64 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Excavation, stone, brick and cement work awarded to James Rosato, Devon, Pa. Carpentry to M. Green, 2032 South Sixth street, Philadelphia.

Residence and Garage, Penfield, Pa. Architect, J. L. Connaroe, 225 South Sydenham street, Philadelphia. Owner, M. H. Clark, 420 West Hortter street, Philadelphia. Hollow tile and stucco, 2½ stories, 46x28 feet, shingle roof, garage, 1½ stories, 16x20 feet, composition, cement and pine floors, hollow tile, metal lath, hot water heating, electric lighting, tile work. Contract awarded to Lockhart & Simon, 1524 Chestnut street.

Residence (alts.), Rydal, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, C. Trevor Dunham, Rydal, Pa. Carpentry, mill work, shingle roof, plastering, hot water heating, electric lighting, iron work. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Residence (int. alts. and add.), Southampton, Bucks County, Pa., $12,000. Architect, private plans. Owner, J. S. Scholes, on premises. Mill work, cabinet work, stair work, concrete and stone work, slate roof, oak and composition floors, plastering, painting, glazing, hot water heating, electric lighting, plumbing. Contract awarded to Albert E. Dunlap, 7223 Oak avenue, Oak Lane, Philadelphia.

Residence, Bryn Mawr avenue, Cynwyd, Pa., $15,000. Architects, Rehfuss & North, 10 South Eighteenth street, Philadelphia. Owner, H. H. McChesney, 1147 North Sixty-fifth street, Philadelphia. Stone and stucco, 2½ stories ,32x35 feet, shingle roof. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Bank (alts.), Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Lansdowne National Bank, Lansdowne, Pa. Interior alterations. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa.

Mercer County, Appli. 2107, Hickory Township, $18,087.60. Contract awarded to Jamieson & Narlee, Fredonia, Pa.

Venango County, Appli. 1981, Rouseville Borough, $44,433.91. Contract awarded to F. S. Wilson, Kittanning, Pa.

Berks County, Appli. 1664, Richmond Township, $75,994.67. Contract awarded to Juniata Co., Empire Building, Philadelphia.

Northampton County, Route 165, Bangor Borough, $62,315.10. Contract awarded to Neumeyer Brothers, Bethlehem, Pa.

Sidewalk, Oley street, Reading, Pa. Owners, Philadelphia and Reading R. R. Co., Reading Terminal, Philadelphia. Concrete sidewalk and grading, Oley street, from railway to street. Contract awarded to Fehr & O'Rourke, Reading, Pa.

New Jersey Construction News

Bungalow, Venus Park, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, care of architect. Frame, 2 stories, 28x35 feet, shingle roof, hardwood floors, electric light, tile work. Plans in progress.

Apartment, Store and Lodge, Pacific avenue, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owners, Plumbers' and Steam Fitters' Association, care of architect. Brick, terra cotta, 3 stories, 40x125 feet, slag roof, hardwood floors, Webster heating, electric lighting, metal lath, tile work, rolled steel sash, fire doors, roof ventilators, waterproofing and dampproofing, ornamental iron work. Plans in progress.

Residences (9), Ventnor City, N. J. Architect, L. R. Barber, Guarantee Trust Building, Atlantic City. Owners, Whiteman & Fisher, care of architect. Brick, 2½ stories, 41x30 feet. Plans in progress.

Residence, Moorestown, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, Mrs. M. L. Coles, Moorestown, N. J. Frame, 2 stories, 30x26 feet, shingle roof, hardwood floors, electric light, tile work. Plans in progress.

Residence, Collingswood, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Mrs. A. Peters, Collingswood, N. J. Brick, 1½ storiese, 40x50 feet, asbestos shingle roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Residence, Morris Heights, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owner, W. G. Howell, Morris Heights, N. J. Brick, 2½ stories, 47x28 feet, vapor heat, electric light, tile work, hardwood floors, slate roof. Revised plans in progress.

Apartment, South Carolina avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Harry Hantman, Atlantic City, N. J. Brick, 3 stories, 35x70 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for bids.

Apartment, Pacific avenue, Atlantic City, N. J. Owners, Nemcoff & Hamburger, Santa Rita Apartments, Atlantic City, N. J. Brick, 3 stories, 37x70 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owners ready for bids.

Residence, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, S. Fishman, 12 South Carolina avenue, Atlantic City. Brick, 1 story, 18 feet 6 inches x 32 feet, slag roof, pine floors, hot water heat, electric light. Architect will take bids.

Garage, Show Room and Apartment, Missouri avenue, Atlantic City. Architect, L. R. Barber, Guarantee Trust Building, Atlantic City. Owners, Hall & Gravatt, care of A. J. Hall, 2209 Atlantic avenue. Brick, steel, 3 stories, 80x175 feet, rubberoid roof, concrete and hardwood floors, hollow tile, metal lath, electric light, roof ventilators, rolled steel skylights, fire doors. Architect taking sub-bids.

Store and Apartment (alts. and add.), 21 South Carolina avenue. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, S. Hyman, on premises. Brick, 3 stories, 72x40 feet, slag roof, pine floors, steam heat, electric light, tile work, rolled steel skylights, roof ventilators. Architect taking bids due November 6th.

Residence, Merchantville, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owner, M. C. Bottomley, care of architect. Brick, 2 stories, 38x26 feet and 20x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due November 2nd.

Bank (alts.), Delaware and Atlantic avenues, Atlantic City. Architect, L. R. Barber, Guarantee Trust Building, Atlantic City. Owners, Atlantic County Trust Co., care of W. Somers, premises. General interior and exterior alterations, marble floors, bank fixtures, ornamental metal work. Owners and architect taking sub-bids.

Loft and Show Room, Missouri and Arkansas avenues, Atlantic City. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, Charles Hinkelman, Atlantic City, N. J. Steel, brick, 5 stories, 50x150 feet, Barrett specification roof, cement and hardwood floors, hot water heat, electric light, hollow tile, freight elevators, rolled steel sash, fire doors, metal ceilings, waterproofing and dampproofing. Architect taking sub-bids.

Apartment, 116-18 Mississippi avenue, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, L. Palissano, 120 North Mississippi avenue, Atlantic City. Brick, 3 stories, 25x50 feet, slag roof, hardwood floors, hot water heat, electric light ,tile work. Architect sub-letting.

Apartment and Store, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, At-

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lantic City, N. J. Owner, D. Augustino Mattea, care of architect. Brick, 3 stories, 29x58 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, metal ceilings, waterproofing and dampproofing. Architect is sub-letting.

Iroquois Hotel (add.), South South Carolina avenue, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, R. L. Ludy, on premises. Frame, 5 stories, slag roof, pine floors, electric lighting. Architect taking bids due November 3rd.

School, Trenton, N. J. Architects, associate, Williams H. Stack & Son, and Ernest Sibley, Trenton, N. J. Owners, Board of Education, County of Mercer, Trenton, N. J. Brick and steel, 2 stories and basement, 130x24 feet, 156x55 feet, 124x50 feet and 53x99 feet, slag roof, cement and maple floors, metal lath, dumb waiter, roof ventilators, dampproofing, iron work and stairs, floor hardener, bond, hollow metal doors, rolled steel skylights, tile, marble and terrazzo work (heating, plumbing, electric work and ventilating separate bids), metal lumber. Owners taking bids due November 9th at 8.30 P. M.

Apartment Houses (6), New Hampshire and Pacific avenues, Atlantic City, N. J. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, Mary Freedman, Atlantic City, N. J. Brick, concrete and steel, 2 stories, 18x80 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work, cement work. Architect taking sub-bids due November 1st.

New Jersey Contracts Awarded

Bank (alts.), Ocean City, N. J. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City. Owners, First National Bank, Ocean City, N. J. General interior alterations, tile and marble work, ornamental iron. Contract awarded to J. Vaughn Mathis, Guarantee Trust Building.

Hotel (add.), 127 South Kentucky avenue, Atlantic City. Architect, L. R. Barber, Guarantee Trust Building, Atlantic City. Owners, Hotel Wynnefield, J. Levy, on premises. Brick, 5 stories, 50x125 feet, slag roof, pine floors, hot water heat, electric light, tile work. Contract awarded to Samuel Headley, Guarantee Trust Building, Atlantic City, N. J.

Bungalow, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Max Dawson, Atlantic City, N. J. Frame, 2 stories, 24x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Paul Fry, Ventnor, N. J.

Commercial Building, Gibbsboro, N. J. Architect, A. P. Valentine, 212 High street, Germantown, Philadelphia. Owners, John Lucas & Co., Inc., 322 Race street, Philadelphia. Brick and steel, 2 stories, 60x100 feet, slag roof, cement floors. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

School, East Paul street, Trenton, N. J., $50,000. Architect, private plans. Owners, R. C. Diocese of Trenton, Trenton, N. J. Brick, steel, 2 stories ,54x92 feet, slate roof, hardwood floors, steam heat, electric light, fire tower. Contract awarded to Frank D. Priory, American Mechanics' Bank Building, Trenton, N. J.

Residences (2), Adeline street, Trenton, N. J., $8,000. Architect, private plans. Owners, Trenton Realty Co., Trenton, N. J. Brick and frame, 2 stories, 28x30 feet, slate roof, pine floors, electric lighting. Contract awarded to Frank Treadel, 321 Genesee street, Trenton.

Gymnasium, Trenton, N. J., $80,000. Architect, private plans. Owners, R. C. Diocese of Trenton, Trenton, N. J. Reinforced concrete and brick, 2 stories, 95x114 feet, slate roof, concrete and hardwood floors, steam heat, electric light, tile work. Contract awarded to F. D. Priory, American Mechanics' Bank Building, Trenton, N. J.

(Continued from page 696)

which shall carry 120 pounds greater strain than another city requires, the latter being well above the safety point.

"There is no doubt that there is enormous waste in building construction industries, but these can only be definitely ascertained after a scientific investigation such as we are making. This waste is not confined to any one group, but runs clear through the various industries.

"Another thing which must be carefully aprpoached and scientifically determined is the matter of apprentices for these trades and of vocational guidance, and, in this, we shall be assisted by the Board of Education, the Franklin Institute, the Y. M. C. A. and the various employers and employes' associations. In this manner we hope that the building trades and crafts may be made more attractive to young men, and that it will be able to afford them the fullest means, first, of education, and later, of employment for efficient workers. These crafts must be constantly recruited if the community is to be efficiently served.

"But the primary object is to better working conditions, to make for a better understanding of the men with the materials with which they work; for more co-operative feeling among the various groups, and absolute fairness to every one who is engaged in or who comes into active contact with the groups of industry. If this can be accomplished, it will be a long step in the right direction, not only for the workers and the employers, but for the public as well."

A bulletin of the Building Trades Employers' Association of Cleveland has an interesting story by Otto Best who says:

"Past experience in vocational training has proven that apprentices manifest greater interest in a trade school when there are features employed to increase its attractiveness. It is the idea of the Apprentice Committee to appoint an Examining Board which, in conjunction with the Board of Education, will submit to the boys at stated intervals an examination in the theory and practice of bricklaying. If the apprentice passes this examination with a satisfactory mark he will receive a bonus in the form of increased wages or a reduction in the term of his apprenticeship. At the present time no definite conclusion has been reached as to which form will be used."

The committee passes on applications for apprenticeship studies, the qualities and progress and also makes a survey and takes into consideration the number of youngsters that the trade will absorb in a given community so as to maintain as near as possible the proper balance between supply and demand.

Efforts are made also to obtain complete co-operation of both employers and of local unions and to develop apprenticeship ideas on a modern and progressive basis.

WHY AN ARCHITECT?

An architect does more than build a house. He provides a setting for a personality. He interprets the occupants in terms of their dwelling. He puts four walls and a roof around the atmosphere of a family. Every client is an individual study. The architect sells not only experience and skill; primarily he sells service. He looks after the physical details of building; his roofs do not leak, his paints do not peel, his chimneys do not smoke. He also studies the habits and characteristics of his client, and seeks above all to provide a home in which the owner will be comfortable, happy, satisfied. Beyond the technical side of his profession he will aim to produce those intangible values that make all the difference between a family barracks and a home in which a family will abide content.

To attain this result the architect draws on his expert acquaintance with building problems in all their multiplicity. Technical skill and artistic gifts combine to make the architect, and it would be strange indeed if a man possessing these qualities could not save his client from many mistakes of judgment and many unwise expenditures. He draws plans, prepares specifications, obtains bids, writes contracts, supervises construction, makes sure the owner gets what he pays for. When the completed building is "delivered" the owner may know that his materials are "right," his house well designed, his workmanship "sound." About one owner in three assumes the architect has no interest in the site, that the dimensions of the lot and the owner's limit of cost are all he cares to know. On the contrary, the architect studies the site. Often he has topographical survey made with foot contours. He helps the owner place the building on the lot with reference to the views it may command, its distance from the street, the opportunity for lawn and gardens. He advises as to the style of architecture that fits the location and the suitability of the materials to be used, whether brick, stone or timber. He suggests the arrangement of rooms in terms of the site, so that vulnerable points will not be exposed to freezing blasts and living rooms will not be shut away from sunlight and outlook, so

that the approach will be effective and the general arrangement convenient. Then the architect is ready for his rough preliminary drawings. After these have been studied he will make the final and complete drawings, the working plans and specifications.

Four times in five the owner tells the architect what he wants, and how much he will spend, and the architect replies that the two are not compatible. Whenever the owner fixes an absolute ultimate of expenditure the architect has no option but to help his client to scale his building accordingly. Here two facts usually emerge: that a small house is more difficult to design than a large one, if it is not to be merely commonplace, and that an able architect can do remarkable things in the way of elimination and yet keep the essentials. Moreover, experience brings prescience so that the architect will help the owner to avoid those after-thought "extras" and those expensive deviations from the original plans that always run fast into money. He will try to locate every fixture and foresee every detail so that his first plans will direct all operations to the driving of the last nail.

Without an architect the owner is in the hands of his builder or contractor. Doubtless the average contractor means to be honest, but without supervision he is exposed to temptation and it is to his advantage to skimp. Unless the owner is an expert and has time to devote to supervision the builder may use materials below specifications and "get away with it." Are there pitchy knots in the lath? They mean yellow spots in the plaster after awhile. Punky framing lumber with many edges is not strong enough. Such terms as "shift" and "slash" mean nothing to the tyro, but if the wrong material is used the floors will splinter up. An owner once noticed that his specifications called "only" for "extra" shingles and added "No. 1." Therefore he roofed his house not with the best shingles, but with the worst. Shingles are graded down from "extra," or knotless; to "clear," with no knots in their exposed portions, and "extra No. 1," with knots anywhere. Clapboarding is "clear" or "extra;" which should be used? Flooring is "clear," "factory," and "No. 2;" which shall you choose? How shall you select your interior finish from the scores that will be urged on your attention? One famous building firm will employ only three crews of plasterers, men who are sure to build "for keeps," whose work will not be "all out" in ten years. Asbestos shingles may be laid in a half-dozen ways producing as many effects and corresponding differences in cost. A certain architect wrought patiently and tactfully to convince his well-meaning but deluded client that a house should have no clapboarding, but block siding; the owner since has expressed his gratitude. An architect will avoid vexing delays. The plumbing and the heating may be in process of installation and the electricians at work before the carpenters finish. Competent supervision means both that the tradesmen shall be punctually on the premises and that the several crews shall not get into each other's way.

As the building business is organized today the contractor and the owner are bound by a standard form of agreement which provides that the contractor shall follow the architect's plans and fulfill the General Conditions of the contract. These General Conditions also are cast in the standard form of the American Institute of Architects. There are some forty-five articles in all, covering all manner of contingencies, defining carefully the rights and duties of all the parties, and treating of documents, drawings, claims, insurance, payments, liens, sub-contracts, corrections, and a hundred other topics. Contractors usually make estimates or submit competitive bids, and here again the owner may well accept the advice of his architect. For estimates vary greatly. Often the highest is really the cheapest. One bidder is accurate and careful; another merely takes a chance with no genuine knowledge back of his proposals; a third may be a shyster who intends to parcel out the job among a score of subcontractors from each of whom he will exact a profit. Many large contractors today maintain extensive organizations and are well educated and efficient men. But they can hardly be expected to take such an individual interest as does the architect who first conceives the plan, then sketches his vision, and finally watches its development in terms of wood and stone.

The architect almost invariably saves his client the full amount of his fee. He avoids waste of space, time, and materials, and all three mean money. He is not merely a superior sort of watchman, yet he makes sure that what is done is well done. Work well done is permanent, vastly reducing the cost of upkeep.

Choose your architect with care. Then trust him. When he tells you that plain things live and gewgaws do not survive believe him. When your views differ be willing to "be shown." Remember he is trained to apply skilled intelligence to achieve results that fit your needs.

—*House Beautiful.*

CAN BUILDINGS BE MADE FIREPROOF?

BY CLARENCE W. NOBLE, ASSOCIATE MEMBER, AM. SOC. C. E.

A lexicographer would have a difficult time to define the word "fireproof," giving it the meaning with which it is used by the average man. Should he ask what it means when applied to a building he would doubtless receive the reply that it means a building which will not burn. Were we to ask if it would apply to an office buiding having a steel frame, tile floors, tile partitions and terra cotta tile outside walls the reply would doubtless be the affirmative. The inquirer, however, might find out that the Burlington Building in Chicago was such a structure, and that when this building was gutted by fire the partitions were largely destroyed because they expanded and crushed themselves against the ceiling, and that the soffits of the tile floors were destroyed by being spalled off by the heat. Mr. Average Man, with his poorly-defined ideas, might, in reply to this, shift his definition of fireproof construction to a reinforced concrete structure, but against this could be cited the case of the Edison fire, in which the heat was so intense that the sides of reinforced concrete beams built with a limestone aggregate, melted, and were found after the fire hanging from the bottoms of the beams like icicles. Mr. Average Man, if he continued argumentative might then point out that the contents of a blast furnace at a certain portion of its height are normally made up largely of melted limestone, and that as the blast furnace runs continually day and night it must necessarily be fireproof. To this the inquirer would naturally reply that all blast furnaces have to be shut down at frequent intervals for relining, and with this reply it is to be hoped that the conception of a perfectly fireproof structure would be driven out of Mr. Average Man's head.

Actually there is no such thing as a "fireproof" structure. The word implies perfect ability to resist the attack of fire, and perfection is something that is not obtainable by human beings. The word should be replaced by the word "fire-resistive," and discussion of the subject should always include the idea that the degree of resistance which is necessary is fixed by the probable intensity of the fire which is to be resisted.

It is the gradual realization of the fact that the so-called "fireproof" building is an unattainable ideal that has discouraged the attempt to develop better fire-resistive construction for ordinary structures. In Europe where the prevailing type of building follows a precedent which was laid down in the Middle Ages, the per capita fire loss is but a small fraction of that of the United States. This is in spite of the fact that the so-called "fireproof" types of structures were developed in this country, and that their ordinary construction looks antiquated to us. The reason is that they have inherited a type of building construction which, for ordinary size building, is reasonably fire-

resistive against the degree of fire that is apt to occur in a building of that size. The lesson is obvious. We, in this country, have long been accustomed to paying no attention whatever to the fire-resistive features of ordinary buildings. If the importance of the building were not sufficient to justify an expenditure necessary to build it in steel and terra cotta, or in reinforced concrete construction, we have designed it as though it would sooner or later fall a prey to the flames anyway and we might as well make it as cheap as possible in consequence. If our architects, for the last fifty years, had given one-tenth as much study to the development of adequately fire-resistive construction for ordinary size buildings as they have done to the so-called "fireproof" construction for monumental buildings, fire losses, and consequently our insurance cost, would be at the most not over one-fifth of what it now is.

It is not necessary that an isolated building of ordinary size should be built entirely of incombustible material in order to be reasonably fire-resistive. It takes two to make a quarrel. It takes two elements to make a fire—fuel and air. If free air can be kept away from the wooden framework of a house it is reasonably safe against an ordinary fire.

Herringbone Lath and Plaster will do it. The air passages between joists and studs should be carefully firestopped with bulkheads made with Herringbone Lath and Plaster or made with Herringbone Lath Baskets which are filled with concrete. Wood laths, which warp as soon as the fire strikes them, thus throwing off their plaster protection and admitting the flames to the wood framework, should be omitted in all instances, and Herringbone Lath put in their place. Outside walls of cement stucco on Herringbone Lath (back-plastered construction) are now definitely cheaper than outside walls of clapboards with paint.

An ordinary residence, made adequately fire-resistive by the use of Metal Lath, can be contracted for at so closely the price of an ordinary combustible structure that the architect when opening his bids would not be able to judge from the quotations alone whether or not the fire-resistive features were included or omitted by the contractor. It is very reasonable to assume that the low bidder out of a group of four or five bids could add the fire-resistive features to his quotation and still remain under the high quotation. It is an assured fact that a residence thus treated is as adequately able to resist any fire to which it could be exposed as is a modern so-called "fireproof" office building able to resist the greater conflagrations to which it may be exposed.

The day of the fire-resistive ordinary building is now here. Such buildings can be made reasonably safe against fire by precautions so inexpensive when compared to the values that are protected, that a prospective builder does himself an injustice if he does not use them. So, too, the architect or contractor, when building for his client, owes it to his client to tell him of the relative cost of inflammable and fire-resistive construction and let him decide for himself the choice between risk and safety.

PROPERTIES OF A GOOD WOOD PRESERVATIVE

A list of the various substances that have been used or suggested for preserving timber from decay would include a surprisingly large proportion of those known to industrial chemistry. By-products for which no use could be found have often taken their last stand as possible preservatives of wood. There have been sent to the U. S. Forest Products Laboratory for testing of their preservative qualities the condensed fumes of smelters, the waste liquors of pulp plants, the refuse of tanneries, the skimmed milk of creameries, and a wide assortment of compounds under trade names.

Very few materials have been found to have value as wood preservatives. Most of them lack one or more of the following requirements.

To preserve wood against decay a substance must first of all be poisonous to wood-destroying fungi. Decay in wood is not due to direct chemical action or action of the elements but is always the result of the activity of these plants which feed on the wood and thus destroy it. To prevent fungous infection, the preservative must be able to penetrate the wood thoroughly enough ot form a continuous exterior shell of poisonous treated wood deeper than any surface checks which are likely to develop, and to retain its toxicity, or poisoning power, under service conditions.

Safety in handling and use is another important consideration. A wood preservative must not be a dangerous poison to men and animals, a highly inflammable substance, nor a material injurious to wood. If it seriously corrodes iron, steel, or brass its use is limited because of its action on the treating equipment and on bolts and metal fastenings in contact with the wood in service. Color, odor, and effect on paint are sometimes of considerable importance.

Provided a preservative meets these requirements its cost, availability, and uniformity will largely determine its usefulness.

There are materials of established protective value now on the market which are both cheap and plentiful. The standard wood preservatives in the United States are zinc chloride and coal-tar creosote. Their value has been established by many years' use of millions of railroad ties, poles, posts, paving blocks, mine timbers, and other wood treated with them. Search for new and better preservatives is constantly being made, but in the meantime the wood preserving industry has at its command these reliable materials.

Thomas F. Gibson has severed his connection with the Western Waterproofing Company of St. Louis, Mo., to take charge of the General Chemical Company's HARD-N-TYTE Engineering Service.

The HARD-N-TYTE Engineering Service is devoted exclusively to contract work for hardening, weatherproofing and wearproofing cement floors, roads and other cement construction; dampproofing and waterproofing; building sub-structures, tunnels, reservoirs, vats, etc.

Mr. Gibson will be located in the Franklin Trust Building, Philadelphia.

Charles J. Mitchell, architect, has opened a new suite of offices at 15 South Twenty-first street, Philadelphia. Through an error Mr. Mitchell's address was given as 21 South Fifteenth street in the "Builders' Guide" of October 18th. His telephone is Spruce 8389.

Frank V. Nickels, architect, formerly of 225 South Sydenham street, is now located at 15 S. 21st street, Philadelphia. His telephone number is Locust 4715.

Arnold Mueller, architect, lormerly of 1727 Bristol Street, has opened new offices at 901 Walnut street, Philadelphia.

You know what propaganda is, don't you? You know, too, how effective a weapon it is, if used properly, don't you? Well, advertising—honest, fair advertising—is the best propaganda we know of. Join the propagandists now! Advertise in the "Builders' Guide."

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

Reference Directory for Architects, Builders and Owners

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Artesian Well Drilling Co.,
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Emack, The John D. Co. Otis Bldg., Phila.

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Weil, J. H., & Co. .....1304 Arch St., Phila.

BRICK (Face, Common, Paving).
Baird, A. S. .....24 S. 7th st., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

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DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
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CEMENT.
DeFrain Sand Co. .....Finance Bldg., Phila.
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Knickerbocker Lime Co., 24th and Callowhill, Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

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Pralatt Equipment Co. .....Drexel Bldg., Phila.

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Pearce Fireproof Co.....1345 Arch St., Phila.

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Woodoleum Mfg. Co. .....133 Arch St., Phila.

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Arvon Co. .....1814 Ludlow St., Phila.
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FENCES.
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FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

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Borden Stove Co. .....1026 Arch St., Phila.
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GARAGE HEATERS
Fleck Bros. .....44 N. 5th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

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Pralatt Equipment Co. .....Drexel Bldg., Phila.

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Riddle, Wm. H. .....1110 S. 31st St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.
Service Heating Co. .....1500 N. Felton St., Phila.

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Fleck Bros. Co. .....44 N. 5th St., Phila.
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Keasbey & Mattison Co.....1927 Market St., Phila.

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Insurance Co. of North America,
3rd and Walnut Sts., Phila.

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Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....531 N. 4th St., Phila.
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General Reproduction Co.....1518 Sansom St., Phila.
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Warren-Knight Co. .....136 N. 12th St., Phila.
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Phila. Meter Co.....Real Estate Trust Bldg., Phila.

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Haney-White Co. .....17th and Glenwood, Phila.

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Emack, The John D. Co. ..... Otis Bldg., Phila.

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McFarland-Meade Co., **70th and Kingsessing Ave.**

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Pearce Fireproof Co. .....1345 Arch St., Phila.
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVII, No. 45
November 8, 1922

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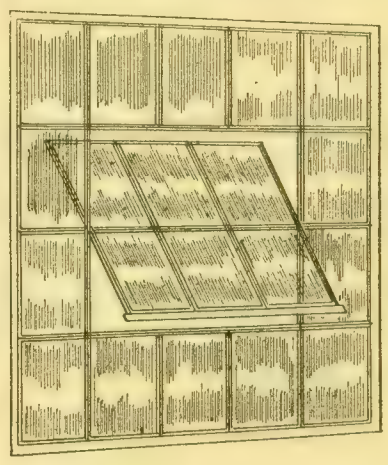
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¶ The 1923 Directory of the Architectural and Building Trades of Philadelphia is now being compiled and will be placed in the hands of every Architect, Builder, Sub-Contractor, Material and Supply Concern in Philadelphia, January, 1923.

¶ To be sure you are listed correctly under the classifications you desire, send names, addresses, Bell and Keystone 'phone numbers, and list of products you sell or manufacture, to 826 Perry Building, Philadelphia.

¶ Every firm or individual in any branch of Architecture or Building will be listed free. Listings include name, address, Bell and Keystone telephone numbers.

¶ Under all classifications advertisements will precede listings. To be sure your ad. will be in the 1923 Directory of the Architectural and Building Trades communicate at once with

BUILDING NEWS PUBLISHING CO.

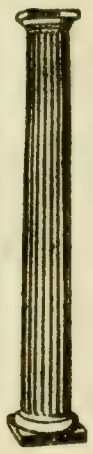
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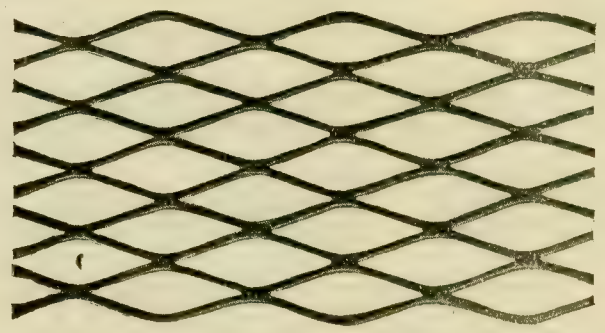


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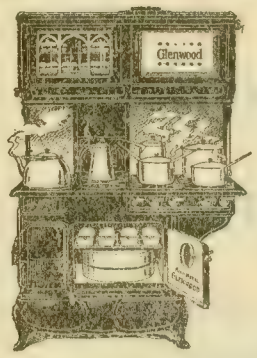
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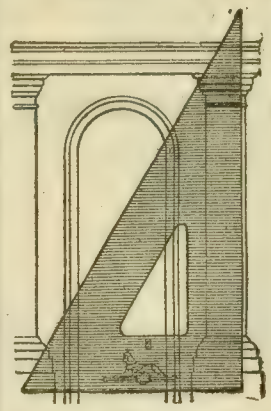
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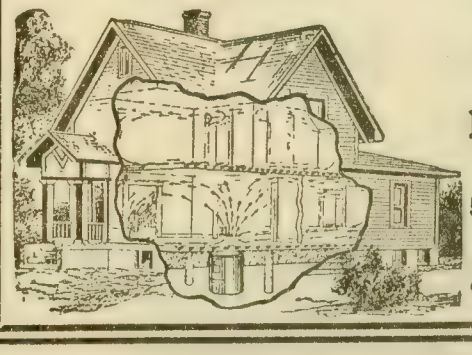
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 45

PHILADELPHIA
November 8, 1922

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
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As The Editor Sees It

CONTRACTORS and material men have been trying, for some time, to eliminate the seasonal character from the construction industry. In view of the scarcity of skilled mechanics and the great need for building, the call to remove this seasonal stigma is more insistent than ever. The problem has been successfully solved in so many instances that building in winter is no longer a hazardous undertaking, and certainly is the only answer to the question of speeding up work, keeping costs down and men employed. People are beginning to realize the advantages of building after the rush of the summer months is over and many more are flocking to the building bargain counter this fall than at any time since the war halted home construction. Contractors and architects, usually the first to feel the approach of cold weather with a slump in business, report a steadily increased volume of inquiries and city officials are writing more permits for erection of homes.

Men in the building industry, from material manufacturer to carpenter and mason, have long known the economic advantages of building in the "slack season." For several years the industry has waged a steady campaign to bring this fact before the public and spread the congested activity of a few months over the entire year.

When the greater portion of building is crowded into seven months, prices reach their highest in the spring and summer when the demand crowds supply. The same situation obtains in the labor phase of the work.

By building in the fall and as far as possible into the winter, this demand is more nearly proportioned among 12 months of the year; mills and factories are able to maintain a steadier flow of production; raw material is stabilized; workmen are not shifting jobs so often, and the contractor and architect are able to keep their basic organizations intact, thus decreasing overhead expenses and assuring more satisfactory and efficient work.

Men in the industry see in this autumn's increased building, the prospect of a broadening of the old short season and a consequent stabilization of building costs, estimating that the certain success of the home owners who are building this winter will prompt many others to take the step in succeeding seasons.

The manufacturers of cement particularly have waged stedy campaigns on this one subject, in perfecting methods of using their product in cold weather to the best advantage and to bring a realization of the savings to be effected before the public.

That such campaigns have borne fruit is evidenced in reports for proposed construction from many cities which show a greater volume of all classes of building on the books for fall and winter than ever before.

Says the *American Contractor*:

Chair warming tactics will be in the discard throughout the construction industry this winter, according to all indications. September building permits for the country were not very far below the total of those for August. Reports from architects' offices indicate that they are still busy transforming the hazy ideas of builders into blue-printed plans. Everywhere contractors are figuring bids on work to be done during the snow storms.

Winter building is not new. For more than ten years winter construction has been successfully carried on by leading contractors. They have successfully demonstrated that though icicles gather around a job, progress can still be made. The contractor unacquainted with winter work must remember just one thing: He must be prepared.

The basic principles of winter construction have been evolved. Technical details may be gleaned from a number of sources. It is the particular layout of each job that will call for ingenuity in the contractor's office.

The layout of the job equipment has always been a decisive factor in efficiency and the securing of a profit. In winter construction it becomes much more important because there must be more care in the handling of materials. They must be heated and covered, and

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mixed with warm water for concreting. Handling processes, therefore, run into money unless the equipment is laid out to do the work efficiently.

A dozen technical factors are involved which must be considered in the light of the best engineering practice, or the contractor is likely to make a business error. Contractors should be glad of a chance to go ahead with winter building, but they will have worse troubles than frost-bitten hands unless they plan and carefully prepare to handle the winter work. They must figure that the job will cost more, and then try to make it cost less.

In the opinion of *Keith's Magazine*: If the cold months must be cut from the building season, this makes building one of the most "seasonal" of the big industries, when in reality only a few of these lines are at all dependent on the season, except as people all flock to the paperhanger or the painter at a preconceived time. It is only the exterior shell of the building that is under dominion of the weather. When a buiding is once enclosed, winter is an even better time than summer to do the work. This seasonal nature of the work adds excessively and unnecessarily to the costs, in the industry.

Under proper conditions all kinds of building can be satisfactorily done at any season, however. Old builders tell tales of the difficulty found in tearing down buildings which they remember, or records show were built during winters memorable as unusually cold seasons. One builder recalls the brick walls of a warehouse in a Canadian city, being taken down with very great difficulty, which had been built during a particularly hard winter when the bricks were laid with the temperature hovering in the neighborhood of 30 degrees below zero.

The great bulk of the work done by general contractors, it is stated, is accomplished between May and October, inclusive, a period of six months. If this time is extended to include April and November, it still leaves a slack period, which is very expensive to the industry, for it is an obvious fact that the time thus lost must be paid for by the public. A more equitable distribution of work through the year would operate toward more satisfactory conditions for every one concerned. It is the annual income which must supply a living wage, and every day of enforced idleness increases the wages which are required for the days of work. It is the intermittent work, where regular wages can not be expected at the end of the week or month which makes much of our seething unrest.

Economic Advantages

While most people prefer to begin building in the spring, there are advantages in starting the job early enough in the fall that the masonry work can be done before cold weather begins, and special protection is necessary; thus getting the building enclosed so that the workmen can complete it without hurry or worry during the cold season, when there is generally nothing rushing the work and it can be properly done.

HIGH FUEL COSTS DEMAND BETTER BUILDINGS

When fuel was cheap and plentiful, it was but natural that buildings should be erected with little regard to their efficiency for heat conservation. In recent years much time and study have been devoted to perfecting the various types of heating plants and pipe coverings in order to deliver the maximum amount of heat possible from the fuel used to the space to be heated. Why not, then, a little scientific consideration of how to minimize the loss of this heat from the building? Remember the heating plant merely replaces the heat lost, and the fuel consumed is directly dependent upon the frequncy of this replacement.

Heat losses occur (not considering ventilation) through infiltration of air, transmission through glass and transmission through walls and roof. Just as proper weather stripping will largely overcome infiltiation and storm sash greatly reduce the transmission through windows, modern insulating materials applied to walls, roof or other exposed areas of a building will surprisingly reduce heat losses through these surfaces.

The necessity for reducing these losses should not be underestimated nor the local climate given too much credit. In this latter respect it is interesting to note that a committee appointed to study fuel conservation during the war, reported that the cost of heating houses of similar size was practically the same in Texas as in Minnesota. This is an excellent illustration of how climatic advantage can be offset through improper construction. Along this same line, one of the largest installers of industrial heating plants makes the following statement:

" . . We had a case recently where a manufacturer had decided upon a certain type of roof. In his mind a roof was a roof. It had nothing to do with heating. As a matter of fact, we were able to show the manufacturer how the excessive heat losses through the roof he had selected would cost him several thousand dollars a year in coal bills over certain other types of roof. In reality he had made his room a huge radiator to warm the great out-of-doors. And he was paying for the coal out of his profits! A study of heat losses precedes the calculation of radiating surfaces in the

(Continued on page 722)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Theatre and Office Building, Northwest Corner Broad and Locust streets, Philadelphia, $2,000,000. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Company of America, Jules E. Mastbaum, president, 1218 Market street, Philadelphia. Stone, brick, steel, concrete and terra cotta. Architects selected. Too early for details.

Building, 1312-14 Chestnut street, Philadelphia. Architect, Andrew J. Sauer Co., Denckla Building, Philadelphia. Owners, Cunningham Piano Co., Eleventh and Chestnut streets. Brick, steel, concrete, cut stone and terra cotta, 15 stories, reinforced concrete and hardwood floors, tile, marble and terrazzo, elevators, plate glass, electric lighting, steam heating. Plans in progress.

Residences (14), Fifty-fourth and Overbrook avenue, Philadelphia. Architect, private plans. Owner, Benjamin Herman, 522 South Sixtieth street, Philadelphia. Stone, brick and stucco, 2½ stories, slate roof, electric lighting, hardwood floors, tile and marble work. Plans in progress.

Catholic High School Building, Forty-ninth and Chestnut streets, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Archdiocese of Philadelphia, Nineteenth and Race streets, Philadelphia. Stone, brick, steel and concrete. Sketches being prepared. Too early for details.

Ice Cream Plant (7 or 8 buildings), Forty-third, South of Woodland avenue, $500,000. Architect, William F. Koelle, Twenty-sixth and Oxford streets, Philadelphia. Owners, Breyer Ice Cream Co., Ninth and Cumberland streets, Philadelphia. Brick, steel and concrete, (1) 4-story building and 1-story buildings, ice storage, boiler room, engine room, stable, garage, cabinet room and manufacturing building. Preliminary plans in progress.

Residence, City Line near Sixty-sixth street, Overbrook, Philadelphia. Architect, William Koelle, Twenty-sixth and Oxford streets, Philadelphia. Owner, William F. Koelle, Twenty-sixth and Oxford streets, Philadelphia. Stone, 2½ stories, size of lot 100x150 feet. Work contemplated.

Factory Building, Tioga and Janney streets, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owners, Cold Blast Feather Co., 169 West Berks street, Philadelphia. Brick, 2 stories, size of lot 100x353 feet. Plans in progress. Too early for details.

Service Station, Walnut street, between Thirty-sixth and Thirty-seventh streets, Philadelphia. Archiects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, W. Edwin Blair, 5945 Chestnut street, and William J. Meenehan, Sixty-second and Walnut streets, Philadelphia. Hollow tile, brick and stucco, 1 story, 100x120 feet, slag roof, cement floors, steam heat, electric lighting, plate glass. Plans in progress. Architects will take general bids in two weeks.

Community Garage, Store and Apartments, Kensington avenue and Boudinot street, Philadelphia. Architect, private plans. Owner, Alan Laro, 234 South Fifty-first street, Philadelphia. Brick and stone, 2 stories, irregular size, slag roof, cement and hardwood and pine floors, metal lath, plate glass, metal bulks, tile work, steam heating, electric lighting, demolition. Plans in progress. Owner will be ready for bids in two weeks.

Residence (alts. and add.), 2005 North Sixteenth street, Philadelphiai. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Joseph Ginsberg, care of architect. Brick and steel, 3 stories, 35x30 feet, hot water heating, electric lighting, tile work, hollow metal skylights, iron work, plastering, painting, glazing, carpentry, mill work. Ready for bids in a few days.

Residences (28), Fifty-fourth and Montgomery avenue, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Joseph Feldman, Lincoln Building, Philadelphia. Brick, 2 stories, 16x42 feet, slag, tin and slate roof, mineral and hardwood floors, electric lighting, tile work, cement work, garages in basement. Plans in progress. Architect will take sub-bids.

Residence and Garage, Oak road, Queen Lane Manor, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Henry Goldthorp, 338 Seymour street, Philadelphia. Stone, 3 stories, 42x28 feet, wing 14x16 feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile and marble work (3 baths), cement work. Architect will be ready for general bids in one week.

Residences (48), Fifty-fourth and Morse street, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, Kenin & Shapiro, 5850 Market street, Philadelphia. Brick, 2 stories, 16x39 feet, slag, tile and slate roof, hardwood floors, hot water heating, electric lighting, tile work. Owners will take sub-bids in one week.

Residences (8), Lincoln Drive, Philadelphia. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, Samuel Golder, care of architect. Stone, 2 stories, 26x50 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile and iron work. Architect taking sub-bids due as soon as possible.

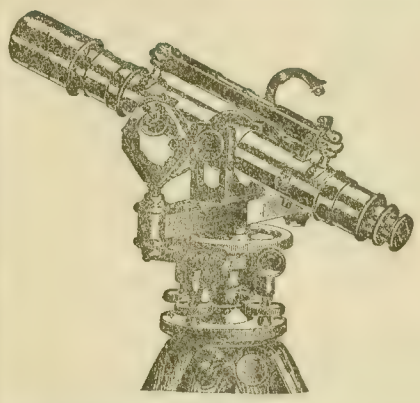
Bank (alts. and add.), Seventh and Dauphin streets, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Northern National Bank, William H. Bellew, chairman of Building Committee, on premises. Brick and terra cotta, 2 stories and basement, 50x70 feet, slag roof, tile and marble work. Plans in progress. Architect will take bids in one month.

Store (alts. and add.), 5724 Chestnut street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Thomas J. O'Neill, 5724 Chester avenue, Philadelphia. Brick and steel, 2 stories, 16x20 feet, slag roof, pine floors, hot water heating, electric lighting, tile work, iron work. Ready for bids in a few days.

Store Building (alts. and add.), 3335 Walnut street, Philadelphia. Architect, Jesse M. Stetler, 1462 North Fifty-second street, Philadelphia. Owners, Tomoyian Co., 111 South Fifteenth street, Philadelphia. Brick, 1 story, 30x20 feet, concrete slag roof, pine floors, electric work, metal bars, plate glass. Owner will take bids.

Residence (alts.) (basement store), Fifty-fifth and Media avenue. Architect, Jesse M. Stetler, 1482 North Fifty-second street, Philadelphia. Owner, H. S. Miller, 1484 North Fifty-second street, Philadelphia. Excavation, reinforcing beams, stone work, cement work, metal bars, plate glass, electrical work. Owner will take bids in two weeks.

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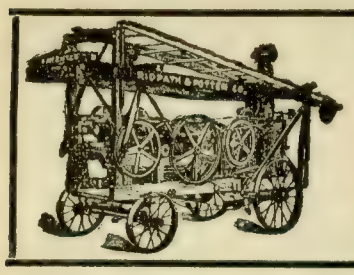
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ing, Northwest Corner Fourth and Arch streets, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Ketterlinus Lithographic Mfg. Co., on premises. Brick, steel, terra cotta, cut stone and reinforced concrete, 8 stories and basement, 55¾x140 feet, slag roof, cement and maple floors, roof ventilators, dampproofing, iron work, iron stairs, floor hardener, bond, fire doors, copper skylights, rolled steel sash, tile and marble work, demolition (heating, electric lighting, sprinklers and elevators reserved). Architects taking bids due November 9th.

Stores (3), Apartments (9), Garages (16), 1533 West Girard avenue. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, Mrs. W. L. D'Olier, care of architect. Add. to residence, 3 stories and basement, garages, 1 story. Brick, slag roof, hardwood and cement floors, vapor heating, electric lighting, tile and marble work. Architect taking bids due November 10th at noon.

Ice Manufacturing Plant, Duncannon and Mascher streets, Philadelphia. Architect, Leslie Wier, 41 East Forty-second street, New York City. Owners, American Ice Co., Sixth and Arch streets, Philadelphia, care of Mr. George Lang. Brick, reinforced concrete and steel, 1 story, 82x180 feet, slag roof, cement and pine floors, hollow tile, waterproofing and dampproofing, iron work, floor hardener, bond, kalamein doors, cork insulation. Owners taking bids due November 11th.

Store (alts.), 227 South Forty-fifth street, Philadelphia. Architect, Henry D. Dagit Sons & Co., 34 South Seventeenth street, Philadelphia. Owners, Massis Tailoring Co., 229 South Forty-fifth street, Philadelphia. Brick and stone work, steel and iron work, carpentry, mill work, oak floors, electric lighting, tile work, hardware, plastering, painting, glazing. Architect taking bids due as soon as possible.

Building for Tubercular Women, Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, C. L. Furbush, M. D., Director, 584 City Hall, Philadelphia. Brick, reinforced concrete, steel and cut stone, 2 stories, 180x71 feet, slate and slag roof, granolithic floors, metal math, waterproofing, terra cotta, iron stairs and iron work, rolled steel skylights, tile, marble and terrazzo work, demolition (heating, lighting and plumbing separate bids). Owners taking bids due November 15th at noon.

Church and Sunday School (alts.), Susquehanna avenue and Hancock street, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Norris Square U. P. Church, Philadelphia. Changing basement into gymnasium, excavating, reinforcing beams, concrete work, etc. Architects taking bids.

Towers (2), Delaware River Bridge, $1,500,000. Architect, private plans. Owners, Delaware River Bridge Joint Commissions, Joseph J. Costello, secretary, Widener Building, Philadelphia. Structural steel for 2 towers. Owners will advertise for bids due November 29th.

Equipment, Second and Luzerne streets, Philadelphia. Owners, Department of Public Health, C. L. Furbush, M. D., 584 City Hall, Philadelphia. Installation of steam sterilizer, metal cabinets, etc. Owners taking bids due November 15th at noon.

Miscellaneous Work and Supplies, Philadelphia. Owners, Department of Public Works, Bureau of Highways, F. H. Caven, Director, Room 216, City Hall, Philadelphia. Grading, asphalt paving, crushed stone, sand, limestone dust, asphaltic cement. Owners taking bids due November 10th. Inquire Room 232.

Supplies, Philadelphia. Owners, City of Philadelphia, Office of the Purchasing Agent, Thomas F. Armstrong, 312 City Hall. Boiler tubes, railroad ties, pig lead, Portland cement, fire brick, etc. Owners taking bids due November 10th at noon, in Room 329.

Residences (18), Garages (8), Wayne avenue and Arbutus, $152,400. Architect, private plans. Owners, Friedenberg & Winkelman, Real Estate Trust Building. Brick, 3 stories, 16x30 feet, 16x25 feet, (1) 24x37 feet, slag roof, hot water heat, electric light. Owners will build.

Residences (21), West side Fourth street, North of Nedro, $5,000 each. Architect, private plans. Owner, John M. Snyder, Fourth and Nedro streets, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residence and Garage, North side Sherwood road, East of Sixty-sixth street, $12,900. Architect, private plans. Owner, Alexander F. Porter, 6337 Drexel road, Philadelphia. Stone, 3 stories, 30x57 feet, garage, 1 story, 20x19 feet, slate roof, steam heat, electric light, oak, pine and cement floors, tile work. Owner will build.

Residences (5), Salmon street, North of Orthodox, $21,000. Architect, private plans. Owner, Paul Dammer, 4404 Salmon street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residence, 3502 North Conrad street, Philadelphia, $4,000. Architect, private plans. Owners, C. M. Swartley & Son, 6835 Ridge avenue, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, electric work, pine floors. Owners will build.

Stores and Residence (alts.), Northwest corner Sixteenth and Erie avenue, $10,000. Ar-

chitect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Samuel Eisenberg, 3849 Cambridge street, Philadelphia. Carpentry, mill work, brick add., 1 and 2 stories, 16x20 feet, 40x47 feet, slag roof, plastering. Owner will build.

Residences (6), (1) Magnolia and Cliveden and (5) 212-14-16-18-20 Cliveden avenue, $36,000. Architect, private plans. Owner, A. Stanley Ulrich, 1523 Snyder avenue, Philadelphia. Brick, 2 stories, 20x34 feet and 19x34 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (5), (1) Oxford and Levick streets, $6,000, and (4) Levick street, East of Montour street, $4,500 each. Owner, Christian Fischer, 6400 Oxford avenue, Philadelphia. Brick, 2 stories, 32½x40 feet, and (4) 16x42 feet, slag roof, hot water heat, electric light. Owner will build.

Garages (5), Twentieth and Atlantic streets and Twentieth and Venango streets, $5,875. Owner, W. M. Connery, 5455 York road, Philadelphia. Brick, 1 story, 18x20 feet, 1 story, 18x68 feet and 18x69 feet, slag roof, cement floors, electric light. Owner will build.

Residences (42), Twentieth and Spencer streets, Philadelphia, $168,000. Owner, E. S. Davis, 2001 Spencer street, Philadelphia. Brick, 2 stories, 20x28 feet, slag roof, electric light, pine floors. Owner will build.

Residence and Garage, West side Bingham street, North of St. Vincent street, $4,950. Architect, private plans. Owner, Louis C. Brill, 7212 Bingham street, Philadelphia. Frame, 1 story, 28x41 feet, hot water heat, electric light, pine and cement floors. Owner will build.

Residences (14), East side Burnholme avenue, South of Solly street, $4,000. Architect, private plans. Owner, W. E. Strock, Fox Chase, Philadelphia. Brick, 2 stories, 16x37x8 feet, slag roof, electric lighting, hot water heating. Owner will build.

Residences (17), Delphine street, West of Fourth street, $4,200. Architect, private plans. Owner, J. Joseph McHugh, 1617 Race street, Philadelphia. Brick, 2 stories, 18x29 feet, hot water heating, electric lighting, slag roof. Owner will build.

Residences (2), East side Montour street, North of Bleigh, $3,500 each. Architect, private plans. Owner, Charles Platz, 4765 North Hutchinson street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting. Owner will build.

Shop and Storage, 709 South Twelfth street, Philadelphia, $4,000. Architect, private plans. Owner, A. P. Lucker, 5136 Parkside avenue, Philadelphia. Brick, 3 stories, 18x100 feet, slag roof, electric lighting, pine floors. Owner will build.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Department of Public Works, City Hall, Philadelphia. The following were low bidders:

Grading—Bridge street, Summerdale avenue to Langdon street, $11,044.68; Bingham street, Roberts to Levic street, $717.60; Clarkson street, Rising Sun avenue to Olney avenue, $12,375.88; Sydenham street, Fisher street to Sommerville street, $4,867.93; Cennetti De Lisle, 4842 Leithgow street, Philadelphia. Bouvier street, Sixty-seventh avenue to Sixty-eighth avenue, $4,672.25; P. MacMahon, Inc., Germantown and Chelten avenues, Philadelphia.

Asphalt Paving—Annsbury street, Fourth to Fifth street, $6,470.90; Chew street, Twelfth street to Thirteenth street, $7,388.78; Delphine street, Third to Fourth streets, $2,441.58; Gale street, Front street to Mascher street, $5,291.58; Lindley avenue, Second to Third street, $66,320.13; Luray street, Rising Sun avenue to Palethorpe street, $14,472.35; Seventeenth street, Rockland street to Ruscomb street, $6,347.53; Sixty-seventh avenue, Ogontz avenue to Twentieth street, $6,015.00; Eastern Paving Co., Colonial Trust Building, Philadelphia. Estaugh street, Mascher street to Palethorpe street, $2,320.90; Allen J. Henderson, Chew and Price streeets, Philadelphia. Lansdowne avenue, Sixty-eighth street to Haverford avenue, $40,732.59; Eastern Paving Co., Colonial Trust Building, Philadelphia. Pennsgrove street, Fifty-fourth to Fifty-fifth street, $4,539.37; Barber Asphalt Paving Co., Land Title Building, Philadelphia.

Radial Brick Chimney for garbage reduction plant. Low bidder: A. Sonnefeld, 48 East Walnut Lane, Philadelphia, $9,700.

Garage, Park avenue, North of Ontario street, Philadelphia. Architect, Amos W. Barnes, 10 South Eighteenth street, Philadelphia. Owners, Samaritan Hospital, Broad and Ontario streets, Philadelphia. Brick and steel, 2 stories, 22x28 feet, slate roof, cement and pine floors, steam heat, electric lighting. Architect taking bids due November 8th at noon.

Abattoir, Northwest Corner Front and Venango streets, Philadelphia. Architects, Peter Kuhn Eng. Co., 3058 North Eighth street, Philadelphia. Owners, Duffy Brothers, 3255 North Front street, Philadelphia. Brick and castone, 1 story and 2 stories, 140x88x64x68 feet, slag roof, reinforced concrete and maple floors, metal lath, iron stairs and work, bond, hollow metal skylights. Owners taking bids due as soon as possible.

Printing and Publishing Buildings, Northwest Corner Fifty-sixth and Chestnut streets. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Chilton Co., Forty-ninth and Market streets, Philadelphia. Brick, concrete and steel, 2 stories, 73x194 feet, and 1 story, 143x194 feet, slag

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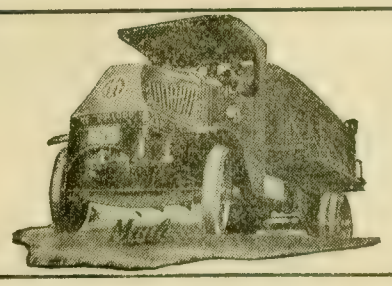
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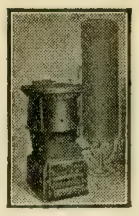
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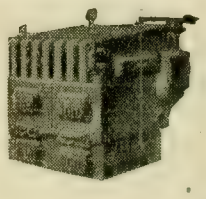
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Residence and Garage, Vernon road and Anderson street, Philadelphia. Architect, private plans. Owner, Adolph Soeffing, 833 Arch street, Philadelphia. Stone, 2½ stories, hot water heating, electric lighting, hardwood and pine floors. Owner will take bids.

Church, Mt. Airy avenue and Boyer street, Chestnut Hill, Philadelphia. Architects, Henry D. Dagit Sons & Co., 34 South Seventeenth street, Philadelphia. Owners, Holy Cross Roman Catholic Church, Rev. John J. Mellon, premises. Stone, reinforced concrete, limestone and cut stone, 1 story, 178x77 feet, slate roof, maple floors, terra cotta, iron work, bond (heating and lighting reserved). Architect taking revised bids due November 15th.

Factory, Front and Lombard streets, Philadelphia. Architect, Benjamin Brown, Denckla Building, Philadelphia. Owner, J. B. Arata, 426 South Front street, Philadelphia. Brick and steel, 4 stories, 36x72 feet, slag roof, cement floors, steam heating, electric lighting. Architect and owner taking bids due as soon as possible.

Store (alts.), Southwest Corner Twenty-fourth and Oxford streets, Philadelphia. Architect, Benjamin Brown, Denckla Building, Philadelphia. Owner, name withheld. General alterations. Architect taking bids.

Residences (24), Chew and Haines streets, Philadelphia, $146,000. Architect, private plans. Owner, James S. Spear, 233 South Twelfth street, Philadelphia. Brick, 3 stories, 16x40 feet, 2 stories, 15x30 feet, and 2 stories, 18x32 feet, slate and slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work. J. Walter Hemple, 1916 Spencer street, Philadelphia, will build.

Contracts Awarded

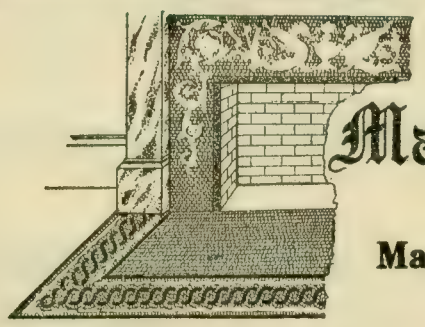
Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bakery (add.), North side Glenwood avenue, East of Broad street, Philadelphia, $1,200,000. Architect, A. G. Zimmerman, 85 Ninth avenue, New York City. Owners, National Biscuit Co., on premises. Reinforced concrete, brick, cut stone, terra cotta and steel, 8 stories and basement, 256x150 feet, slag roof, mosaic, cement and maple floors, hollow tile, metal lath, roof ventilators, metal weather strips, waterproofing and dampproofing, iron stairs, iron work, bond, pressed steel doors, rolled steel skylights, hollow metal sash, marble and terrazzo work (heating, plumbing, electric work and elevators separate bids). Contract awarded to John Griffith Sons Co., 112 West Adams street, Chicago, Ill.

Switch Factory, Seventh and Willow streets, Philadelphia. Architect, Plant Engineer, Schenectady, N. Y. Owners, General Electric Co., Schenectady, N. Y. Brick, concrete and steel, 7 story add., 175x140 feet, maple and cement floors, metal lath, plastering, terra cotta tile, fire doors, saw-tooth skylights (plumbing, heating, electric work, roofing, rolled steel sash and elevator changes reserved). Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Church (alts.), Fifty-eighth and Chester avenue, Philadelphia. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owners, Westminster Presbyterian Church, on premises. Interior alterations, plastering, carpentry, mill work, painting, glazing, composition and cement floors, metal lath, dampproofing. Contract awarded to William J. Ervin, 5927 Kingsessing avenue.

Pottery, 715-19 Wharton street, Philadelphia, $20,000. Architect, private plans. Owners, Whilden Pottery Co., on premises. General fire repairs, new slag roof, new brick



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work, steel sash, carpentry, mill work, maple floors, painting, glazing. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Garage, South side Luelow street, East of Forty-first street, $19,400. Architect, private plans. Owners, Taggan & Taggan, 1124 Chestnut street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric lighting. Contract awarded to United Eng. & Const. Co., 5913 Vine street.

Garages (2), 232 East Mt. Airy avenue, Philadelphia, $25,000. Architect, private plans. Owners, Samuel and George Felt, Webster street and Cobb's Creek Parkway, Philadelphia. Brick, 1 story, 18x125 feet, and 1 story, 18x98 feet, 18x81 feet, slag roof, cement floors, electric lighting. Contract awarded to Seeds & Steinmetz, 551 South Yewdall street.

Residences (4), 802-04-06-08 Fanshawe street, $16,000. Architect, private plans. Owner, J. Corbett, 806 Magee street, Philadelphia. Frame and brick, 2 stories, 14x46 feet, shingle roof, hot water heat, electric light. Contract awarded to W. G. Isles, 806 Levick street, Philadelphia.

Ice Palace (alts.), Forty-sixth and Market streets, Philadelphia, $10,000. Architect, private plans. Owners, The Arena Club, Forty-fifth and Market streets, Philadelphia. General alterations. Contract awarded to George F. Pauling, 1432 South Penn Square.

Ice Storage Building (alts.), 5166 J street, Philadelphia, $15,000. Owners, Franklinville Ice Storage Co., 3423 North Sixth street. Extensive alterations. Contract awarded to York Mfg. Co., 2222 Arch street, Philadelphia.

Transformer Building (alts. and add.), 636 Richmond street, Philadelphia, 3,000. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Remington & Sherman, on premises. Brick, second story add., 18x32 feet, slag roof, steel sash. Contract awarded to Franklin M. Harris & Co., 1520 Parrish street.

Store, 3521-23 Germantown avenue, Philadelphia, $9,500. Architect, private plans. Owner, Mary E. Honan, 3523 Germantown avenue, Philadelphia. Brick, 1 story, 34x76 feet, slag roof, electric lighting. Contract awarded to John Schuster, 3552 North Fifteenth street.

Residence and Store (alts.), Southeast corner Eighteenth and Columbia avenue, $8,000. Architect, private plans. Owners, Khachadoor & Chirkeman, 2148 Ridge avenue, Philadelphia. New brick front, bulk windows, carpentry, mill work, painting. Contract awarded to Lester M. Shestack, 826 Arch street, Philadelphia.

Residence, South side Cottman street, West of Rising Sun avenue, $6,500. Architect, private plans. Owners, Burnholme Garage, Burnholme, Pa. Brick, 2 stories, 16x35½ feet, slag roof, electric work, oak and pine floors. Contract awarded to Joseph Dwinger, Burnholme, Pa.

Residences (2), West side Prospect, South of Cemetery avenue, $6,700. Architect, private plans. Owner, Isaac R. McGraw, Somerton, Pa. Frame, 2 stories, 22x24 feet, shingle roof, electric lighting. Contract awarded to Herbert L. Curtis, Somerton, Pa.

Residence, 609 Poplar street, Philadelphia, $6,000. Architect, private plans. Owner, Mrs. Fannie Abraham, 609 Poplar street, Philadelphia. Brick, 3 stories, 20x17 feet, 18x37 feet, slag roof, electric work. Contract awarded to M. Rosenheck, 709 Parrish street, Philadelphia.

Residence, 4522 Edgemont street, Philadelphia, $4,400. Architect, private plans. Owner, Andrew Soltisiak, 4457 Livingston street, Philadelphia. Brick, 2 stories, 16x42 feet, 16x10 feet, slag roof, electric light. Contract awarded to Frank Sikoski, 4478 Edgemont street, Philadelphia.

Residence, 2109 South Twenty-eighth street, Philadelphia, $5,200. Architect, private plans. Owners, Church of the Holy Virgin, on premises. Brick, 2 stories, 16x51 feet, slag roof, electric lighting, oak and pine floors, tile work. Contract awarded to King & Duvack, 2541 South Sixty-first street.

Residences (2), West side Lawndale, South of Cottman, $4,500. Architect, private plans. Owner, Lester F. Quinlan, 917 Princeton street, Philadelphia. Brick, 2 stories, 16x35½ feet, slag roof, hot water heating, electric lighting, oak and pine floors. Contract awarded to C. W. Rutter, 3224 North Philip street, Philadelphia.

Residence and Store (alts.), Northeast Corner Fifteenth and Wallace streets, $4,500. Architect, private plans. Owner, Bernard J. Kane, 1035 Walnut street, Philadelphia. General alterations, carpentry, mill work, plastering, painting, glazing, hardware, bulk windows. Contract awarded to Henry W. Wagoner, 2042 Rittenhouse street.

Residence, East side Front street, North of Louden street, $5,000. Architect, private plans. Owner, Pauline I. Grunwald, 455 East Wyoming avenue, Philadelphia. Brick, 2 stories, 15½x50 feet, slag roof, electric lighting. Contract awarded to Frank H. Grunwald, 455 East Wyoming avenue.

Garage, South side Rhaun street, East of Craig street, Philadelphia, $5,000. Architect, private plans. Owner, Samuel Kelly, Holmesburg, Philadelphia. Brick, 1 story, 120x18 feet, slag roof, cement floors, electric work. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

Residence (alts.), 427 Mt. Airy avenue, Philadelphia, $4,000. Architect, private plans. Owner, John Short, Twenty-first and Cherry streets, Philadelphia. General alterations. Contract awarded to John Welsh, 5222 Greene street, Germantown, Philadelphia.

Residence, 1307 Sellers street, Philadelphia, $4,000. Architect, private plans. Owner, A. Graham, 1307 Sellers street, Philadelphia. Brick, 2 stories, 14½x34 feet, slag roof, electric light, pine floors. Contract awarded to Brophy & Propert, 1638 Unity street, Philadelphia.

Garage, South side North street, West of Fifteenth street, Philadelphia, $5,000. Architect, private plans. Owner, Miss Lena F. Knudsen, 650-52 North Fifteenth street, Philadelphia. Brick, 1 story, 38x47 feet s,lag roof, electric light, cement floors. Contract awarded to Farrell-Roth Const. Co., 122 Diamond street.

Residence, Southeast Corner Paoli and Silverwood streets, $4,500. Architect, private plans. Owner, Jessie Riggall, Domino Lane and Ridge avenue, Philadelphia. Stone, 2 stories, 32x40 feet, electric light, pine and oak floors. Contract awarded to Gottlieb Steinle, 3443 Sunnyside avenue.

Residence and Store (alts.), 2036 Fairmount avenue, $3,600. Architect, private plans. Owner, H. Brevda, 5818 Webster street, Philadelphia. General alterations. Contract awarded to J. Jones Davies, 652 North Seventeenth street, Philadelphia.

Residence, 2111 South Twenty-eighth street, Philadelphia, $3,600. Architect, private plans. Owner, John Sandon, on premises. Brick, 2 stories, 15x39 feet, slag roof, hot air heating, electric lighting. Contract awarded to King & Duvack, 2541 South Sixty-first street.

Residences (9), Worth and Wakeling streets, Philadelphia, $31,000. Architect, private plans. Owner, Joseph Florkorwich, 4847 Tacony street, Philadelphia. Brick, 2 stories, (1) 14½x44 feet and (8) 14x27 feet, 11x11 feet, slag roof, electric lighting. Contract awarded to J. Kazmerczak, 4837 Tacony street, Philadelphia.

Garage, 3732 Walnut street, Philadelphia, $2,500. Architect, private plans. Owner, Evaline Macrae, 214 DeKalb street, Philadelphia. Brick, 1 story, 16x32 feet, slag roof, cement

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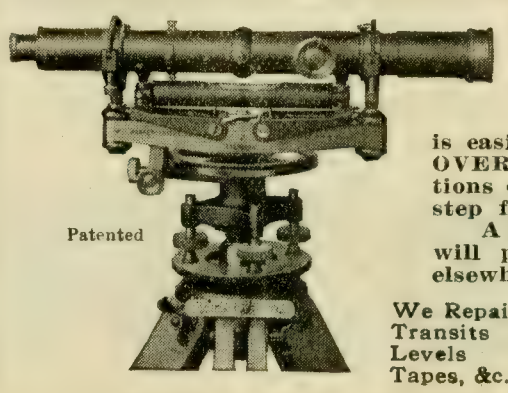
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floors. Contract awarded to A. J. Wilson, 4504 Pine street, Philadelphia.

Garage, 2035-37 Abagail street, Philadelphia, $3,500. Architect, private plans. Owner, George A. Wright, 113 East Cumberland street, Philadelphia. Brick, 1 story, 24x58 feet, slag roof, cement floors, electric light. Contract awarded to John Taylor, 2628 Braddock street, Philadelphia.

Shop, West side G street, North of Tioga street, $2,900. Architect, private plans. Owner, Edward Jones, 2423 Reach street, Philadelphia. Brick, 1 story, 15x75 feet, slag roof, electric light, pine floors. Contract awarded to A. Earl Barnes, 2044 East Clementine street.

Manufacturing Building, West side Delaware avenue, South of Buckius street, $2,500. Architect, private plans. Owners, U. G. I. Company, Broad and Arch streets, Philadelphia. Iron, 1 story, 32x50 feet, cement floors, steel. Contract awarded to Truscon Steel Co., 1432 South Penn Square.

Water Purification Plant, Twenty-third and Clearfield streets, Philadelphia, $2,300. Architect, private plans. Owners, Tribune Laundry Co., Inc., on premises. Brick and steel, 1 story, 24x27 feet, slag roof, cement floors. Contract awarded to George Tomlinson, 1713 Sansom street, Philadelphia.

Building (alts.), Northeast Corner Thirty-third and Walnut streets, $2,500. Architect, private plans. Owner, S. B. Dobbs, 1218 Chestnut street, Philadelphia. General alterations. Contract awarded to Fred A. Havens Co., 845 North Nineteenth street.

LeRoy B. Rothschild, architect, has opened new offices at 215 South Broad Street, Philadelphia. Telephone, Spruce 9508.

Karl F. Otto, architect, is now located at 3 North Nineteenth Street, Philadelphia. Telephone, Spruce 5552.

Rehfuss & North, architects, formerly of 10 South Eighteenth Street, are now located at 1509 Sansom Street, Philadelphia.

Ralph H. Goldberg, archiect, has opened an office at 10 South Eighteenth Street, Philadelphia.

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PENNSYLVANIA Construction News

Twin Residence, Lawndale, Pa. Architect, Robert C. Winter, 11 South Sixteenth street, Philadelphia. Owners, Webb Brothers, care of architect. Brick, 2 stories, 16x42 feet each, asbestos shingle roof, hardwood and pine floors, hot water heating, electric lighting. Plans in progress. Architect will take sub-bids.

Residence and Garage, Merbrook Lane, Merion, Pa. Architect, Richard R. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, Richard R. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Stone, 3 stories, 30x50 feet, slate roof, hardwood floors, vapor heating, electric lighting, tile and marble work. Plans in progress.

Residence and Apartment House (alts. and add.), West Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, John Seibert, 541 Penn avenue, West Reading, Pa. Three stories add., electric light, tile work, tin roof, sheet metal work, hot water heat, plate glass, iron work, pine floors. Plans in progress. Owner will take sub-bids in a week.

Bungalows (3), East side of Fairview avenue, Highland Park, Pa. Architect, private plans. Owner, James N. Mitchell, Forty-sixth and Market streets, Philadelphia. Stone, brick and frame, 1½ stories, slate or shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress. Owner will take sub-bids in three weeks.

Residences, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, C. O. Grander, Bridge street, Spring City, Pa. Frame, 2 stories, 20x28 feet, shingle roof, yellow pine floors, pipeless heat, electric light, hollow tile, plumbing. Plans completed.

Residence, Drexel Hill, Pa. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Frame and stucco, 2½ stories, 24x36 feet, slate roof, oak and pine floors, hot water heating, electric lighting. Plans in progress.

Residence, Oakmont, Pa. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Concrete block and stucco, 2½ stories, 26x28 feet, slate roof, oak and pine floors, hot water heating, electric lighting. Plans in progress.

Residence, Bethlehem Pike, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Vernon Mayer, Souderton, Pa. Frame, 2½ stories, 30x32 feet, shingle roof, hot wa..ter heating, electric lighting. Owner will take bids.

Stores and Apartments (2) (alts. and add.), Pennsburg, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Robert Levy, Pennsburg, Pa. Brick, 3 stories, 25x34 feet, slag roof. Preliminary plans in progress.

Residence, Lansdale, Pa., $7,000. Architect, Jerome S. Landes, Souderton, Pa. Owner, Frederick T. Fell, Lansdale, Pa. Brick, 2 stories. Preliminary plans in progress. Too early for details.

Residences and Garages (4), Wynnewood, Pa. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, name withheld. Stone and hollow tile or concrete block and stucco, 2½ stories, 18x47 feet, garages, 16x20 feet, shingle roof, hardwood floors, cement work, vapor heating, electric lighting, tile work. Plans completed. Architect ready for sub-bids.

Beechwood Elementary School, Pittsburgh, Pa. Architect, Press C. Dowler, Pittsburgh, Pa. Owners, Board of Education, Pittsburgh, Pa. Brick, reinforced concrete, steel and stone, 2 stories and basement, 203x64 feet, Barrett roof, concrete and maple floors, metal lath, waterproofing and dampproofing, iron work, floor hardener, bond, tile, marble and terrazzo (heating, plumbing, lighting reserved). Owners taking bids due November 9th.

Rectory, Collingdale, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Joseph's Parish, Otto G. Gronoll, rector, Collingdale, Pa. Stone, cut stone and brick, 3 stories, 38x55 feet, Phoenix roof (slate alternate), oak and pine floors, metal lath, iron work, bond, tile and marble work, vapor heating, electric lighting. Architect taking bids due November 14th at noon.

Thomas Rankin Patton Memorial, Elizabethtown, Pa. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Mansoc Home, Elizabethtown, Pa., Judge A. M. Beitler, City Hall, Philadelphia, chairman Building Committee. Brick, 2 stories, slate roof. Preliminary plans in progress. Architect will take bids about February 1st.

Garage, Springfield avenue, Upper Darby, Pa. Architect, Jesse M. Stetler, 1482 North Fifty-second street, Philadelphia. Owner, H. S. Miller, 1484 North Fifty-second street, Philadelphia. Brick, 1½ stories, 20x20 feet, asbestos shingle roof, cement floors, heating

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and lighting extensions. Owner will build.

South High School, Junior-Senior Annex, Pittsburgh, Pa. Architect, Edward Stotz, Pittsburgh, Pa. Owners, Board of Education, Pittsburgh, Pa. Brick, concrete and steel, 3 stories and basement, and sub-basement, 160x135 feet, composition roof, maple, cement and composition and cork floors, metal lath, waterproofing, iron work and stairs, hollow metal sash, tile, marble and terrazzo work (heating, electric work and plumbing separate bids). Lowest bidder: P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia, $469,900.

Residence, Rydal, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owner, Mrs. C. E. Doan, Rydal, Pa. Stone, 2½ stories, 35x80 feet, slate roof, hardwood and pine floors, vapor heating, electric lighting, tile and marble work. Architects are ready for bids due November 17th.

Residence and Garage, Penlyn, Pa. Architect, John Meigs, 1211 Walnut street, Philadelphia. Owner, Hutchison Scott, care of architect. Architect taking bids due November 9th.

Garage and Show Room, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, J. J. Gillman, 1336 Girard avenue, Philadelphia. Brick, 1 story, 42x135 feet, slag roof, plate glass, cement and pine floors, electric lighting. Preliminary plans in progress. Will take bids in spring of 1923.

Church (alts. and add.), Tamaqua, Pa. Architect, G. C. Freeman, Sixth and Court streets, Reading, Pa. Owners, St. Jerome's Roman Catholic Church, Rev. H. Baker, Tamaqua, Pa. Stone, 1 story and basement, 20x60 feet, hardwood and cork floor, electric light, tile work, terrazzo work, plastering, stained glass. Plans in progress.

Hall Building (alts. and add.), Conshohocken, Pa. Architect, United Eng. Co., 323 Walnut street, Philadelphia. Owners, Knights of Columbus, Conshohocken, Pa. Brick work, cement work, structural steel and iron work, plastering, oak and composition floors, metal lath, plastering, painting, glazing, iron work (heating, lighting and plumbing separate bids). Architects taking new bids due November 13th.

Pennsylvania Contracts Awarded

Residence, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, D. F. O'Hara, 4045 Green street, Philadelphia. Stone, 2½ stories, 26x38 feet, garage, 1 story, 20x24 feet, shingle roof, hardwood and cement floors, hot water heating, electric lighting, tile work. Contract awarded to Suburban Const. Co., Penfield, Pa.

Residence, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, F. H. Barras, 4045 Green street, Philadelphia. Frame and stucco, 2½ stories, 25x33 feet, shingle roof, hardwood floors, pine floors, hot water heating, electric lighting, tile work. Contract awarded to Suburban Const. Co., Penfield, Pa.

Residence and Garage, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Norman I. Gruber, 334 Yost avenue, Spring City, Pa. Tapestry brick and stone, 2 stories, 38x30 feet, tile roof, oak and pine floors, pipeless heating (heating, plumbing and electric work reserved), terra cotta work. Contract awarded to Frank L. Walley, Spring City, Pa.

Residence, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Mrs. Harry Saylor, Main street, Royersford, Pa. Brick and stone, 2 stories, 26x36 feet, oak and maple floors, pipeless heat, composition roof, tile work (heating, plumbing and lighting reserved). Contract awarded to W. A. Becker, Royersford, Pa.

Store and Apartment Building, Glenside, Pa., $18,000. Architect, H. Walton Heiss, Jenkintown, Pa. Owner, Fred E. Geuther, Glenside, Pa. Brick, 3 stories, 38x43 feet, slate and slag roof, composition, oak and pine floors, hot water heat, electric light, metal lath, bond. Contract awarded to Roy Randall, Horsham, Pa.

Bank Building, Hatboro, Pa., $27,000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Hatboro National Bank, Hatboro, Pa. Stone, 1 and 2 stories, 30x40 feet, 20x28 feet, demolition, tin roof, North Carolina pine floors, hot water heat, electric light, tile work, bond, ornamental iron work (bank fixtures, vault doors and linings reserved). Contract awarded to Roy Randall, Horsham, Pa.

Garage, Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, W. C. Gould, Philipsburg, Pa. Brick, 1 story, 20x24 feet, asbestos shingle roof, cement floors, heating and lighting extensions. Contract awarded to William C. Rambo, Philipsburg, Pa.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa.

Lehigh County, Route 226, Appli. 1523, North Whitehall and Heidelberg Townships, length 24,077 feet. One course reinforced concrete, $170,478.25. Contract awarded to Juniata Company, Empire Building, Philadelphia.

York County, Route 250-333, Fairview Township, length 22,806 feet. One course reinforced concrete and hillside vitrified brick. Contract awarded to Kumer & Graeber, Shamokin, Pa., $261,549.48.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg. Lancaster County ,Appli. 2095, and Route 344, Quarryville Borough. One course reinforced concrete, $14,801.30. Contract awarded to Swangler-Fackler Const. Co., Lebanon, Pa.

Hospital, West Reading, Pa., $1,500,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Reading Hospital Board, Frank Livingood, president, West Reading, Pa. Brick, steel, concrete, fireproof. Plans in progress. Wyomissing Developing Co., Wyomissing Pa., will build.

Bank, Oak Brook, Pa. Architect, Harry Maurer, 234 Norrh 5th st., Reading, Pa. Owners, Reading National Bank, Reading, Pa. Brick and cut stone, 1 story, 30x53 feet, Carey roof, vapor heat, electric light, tile work, marble, mosaic, wood and tile floors, tile work. Contract awarded to C. H. Schlegel, 2250 Perkiomen avenue, Reading, Pa.

Store, Reading, Pa. Architect, Fred Muhlenberg, 24 North Sixth street, Reading, Pa. Owner, Lewis T. Ganster, 200 North Fifth street, Reading, Pa. Concrete and brick, 2 stories, 30x30 feet, asphalt roof, hardwood floors, steam heat, electric light. L. H. Focht & Son, Baer Building, Reading, Pa., will build on percentage basis.

Store and Apartment, Seventh and Cherry streets, Reading, Pa. Architect, M. B. Dechant, 632 Washington street, Reading, Pa. Owner, J. B. Waidelich, American Drug Store, Allentown, Pa. Brick, hollow tile, 4 stories and basement, 97x32 feet, slag roof, hardwood floors, steam heat, electric light, tile work, terra cotta. Contract awarded to Butz & Clader, Ainey Building, Allenown, Pa.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Jefferson County, A-1958, Brookville Borough, 1,921 feet. One course reinforced concrete and hillside vitrified brick, $43,511.28. Contract awarded to W. C. Quick & Co., Brookville, Pa.

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New Jersey Construction News

Junior High School, Cadwallader street, Trenton, N. J., $1,000,000. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, School Board of Trenton, R. C. Belville, secretary, 9 South Stockton street, Trenton, N. J. Brick, steel, fireproof, 2 stories, 380x410 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved), hollow tile, metal lath, safety treads, roof ventilators, marble and terrazzo work, waterproofing and dampproofing, terra cotta, iron stairs, ornamental iron work. Plans in progress.

Elks' Club, Fowler street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, I. B. P. O. E., Sunlight Lodge, No. 114, Mr. F. Kinney, 120 North Warren street, Trenton, N. J. Brick, steel, 1 story, 60x80 feet, slag roof, maple floors, hollow tile, steam heat, electric light, tile and marble work, ornamental iron work. Architect will be ready for bids next week.

Residence, Ventnor, N. J., $150,000. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Hon. Walter E. Edge, 170 South Pennsylvania avenue, Atlantic City, N. J. Brick and stone, 2½ stories, hardwood floors, electric lighting, tile and marble work. Plans in progress. Too early for details.

Store and Offices, Atlantic avenue, Atlantic City, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Brick, steel and limestone, 2 stories, 26x100 feet, slag roof, cement and pine floors, hot water heating, electric lighting, tile work, hollow metal skylights, iron work. Plans in progress. Architect will be ready for bids in two weeks.

Residence (alts. and add.), Woodbury, N. J. Architect, Richard R. Neely, 2126 Pine street, Philadelphia . Owner, S. Polsky, 240 South Broad street, Woodbury, N. J. Brick and frame, 2 stories, 74 x35 feet, slag roof, pine and mineral floors, hot water heat on second floor, electric extensions. Owner will be ready for bids in ten days.

Show Room and Garage (add.), 2719-21 Atlantic avenue, Atlantic City, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Carroll W. Brown, Atlantic City, N. J. Brick and steel, 1 story, 48x23 feet, slag roof, cement floors, metal lath, plate glass, metal bulks, electric lighting, fire doors. Owner will build.

Residence, 12 South Connecticut avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner, S. Fishman, on premises. Brick, 1 story, 18½x32 feet, slag roof, pine floors, hot water heating, electric lighting. Architect taking bids.

Residences (2), Stuyvesant street, Trenton, N. J. Owners, Rees-Taylor Co., American Mechanics' Bank Building, Trenton. Brick and frame, 14x47 feet, slate roof, pine floors, electric lighting. Owners will build.

Bridge, Alden street, Trenton, N. J. Architect, private plans. Owners, City of Trenton, N. J. Steel and concrete. Lowest bidders: Louis Seiling, Red Bank, N. J., $208,903; Carl R. Camp, 10 South Eighteenth street, Philadelphia, $218,666.

Bridges, Bridgewater and Bedminster, Somerset County, N. J. Engineer, John L. Vogel, 722 Broad street, Newark, N. J. Owners, State Highway Commission of New Jersey, Broad Street Bank Building, Trenton, N. J. Concrete and steel, 2 span, 45x30 feet, bond. Owners taking bids due November 15th. Deposit, $10.00.

Lumber, Trenton, N. J. Owners, State Highway Commission, Broad Street Bank Building, Trenton, N. J. Bids will be received on November 21st at 11 A. M. for furnishing 487,400 feet B. M. of lumber for use on the Ocean City-Somer's Point bridge. Delivery to be made F. O. B. cars at railroad siding at Ocean City. Certified check for 10% of amount of bid.

New Jersey Contracts Awarded

Bank, Audubon, N. J. Architect, Harold Allen, 526 Stevens street, Camden, N. J. Owners, Audubon National Bank, Audubon, N. J. Brick, cut stone, steel and reinforced concrete, 2 stories, 40x66 feet, slag roof, cement and maple floors, metal lath, hot water heating, electric lighting, tile and marble work, terrazzo work, bond. Contract awarded to Hugh B. Miller, Edgewater Park, N. J.

Warehouse, Baltic and Baltimore avenues, Atlantic City, N. J. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owners, Fleck Brothers, 50 North Fifth street, Philadelphia. Brick, 1 and 2 stories, 85x175 feet, slag roof, concrete and pine floors, hot water heating, electric lighting. Contract awarded to N. Neddleman, Atlantic City, N. J.

Residence, South Orange, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, H. Herring, South Orange, N. J. Frame, 2½ stories, 27x28 feet, shsingle roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Harry Bell, Irvington, N. J.

Residence, Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owner, J. Howard Ronan, 1305 West State street, Trenton, N. J. Frame, 2½ stories, 32x30 feet, shingle roof, hardwood floors, electric lighting, heating undecided. Contract awarded to A. Bowers, Dutch Neck, N. J.

Residence, Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owner, Mr. Lester Bingley, 211 Perry street, Trenton, N. J. Frame, 2½ stories, 32x30 feet, shingle roof, hardwood floors, electric lighting. Contract awarded to Lewis Bowers, Dutch Neck, N. J.

Residences (2), Melrose avenue, Trenton, N. J., $8,000. Owner, H. Miller, care of builder. Brick, frame, 2 stories, 14x39 feet, slate roof, pine floors. Contract awarded to L. J. Wilson, 916 Melrose street, Trenton.

Club House, Trenton, N. J., $7,000. Owner, J. C. Hill, 7 West State street, Trenton, N. J. Frame, 2 stories, 22x65 feet, slate roof, pine floors, electric light. Contract awarded to W. Schaefer & Son, 1045 South Broad street, Trenton.

Miscellaneous Construction News

Gymnasium and School (add.), Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Madison Avenue Temple, Baltimore Hebrew Congregation, Baltimore, Md. Brick, steel, stone and concrete, gymnasium 54x63 feet, 4 story add. to school, 21x65 feet, slate and Johns Manville roof, pine floors, steam heating. Architect taking bids due November 13th.

Church (alts. and add.), Ridgely, Md. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Delaware. Owners, St. Benedict's Church, Rev. Joseph A. Lee, Ridgely, Md. Frame, 30x70 feet, shingle roof, general alterations. Plans in progress.

Residence (alts.), Cooch Bridge, Delaware. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Edward W. Cooch, Equitable Building, Wilmington. New partitions, hardwood floors, general interior alterations. Plans in progress.

Board of Temperance Building, Maryland avenue and First street, N. W., Washington, D. C., $500,000. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Temperance, Prohibition and Public Morals of the Methodist Episcopal Church, Washington, D. C. Brick, reinforced concrete, cut stone, limestone and steel, 5 stories and basement, 128x36x151x36 feet irregular, slag and asphalt mastic roof, composition, concrete and maple floors, hollow tile, metal latah, safety treads, roof ventilators, iron work, floor hardener, bond, kalamein and tin clad doors, rolled steel sash and skylights, tile, marble and terrazzo work (heating, lighting, plumbing, refrigeration and elevators separate bids). Contract awarded to Boyle Robertson Co., Washington, D. C.

(Continued from page 712)

most modern heating practice. Such a study in a theoretical one-story building 500 by 200, for example, shows that the type of roof can effect the initial cost of the heating system in such a building some $10,000 and the annual expense for fuel as much as $7,000."

Proper insulation is also a necessity in maintaining comfortable temperatures during hot weather in upstairs rooms of residences, loft work-shops, and the top floor of apartment buildings. In the case of the latter, these suites would undoubtedly be most desirable if the heat in summer was not almost unbearable at times.

In special process factories, such as paper and textile mills, bakeries, candy rooms, etc., where high humidities occur, insulation is installed to prevent the condensation of moisture on ceilings or walls. The same treatment is also effective in gymnasiums and similar rooms where the roof slab forms the ceiling or in buildings where the air is scientifically humidified. An effective illustration of condensation in a minor form which is unsightly and causes frequent redecorating, is the discoloration of ceilings under unheated spaces. The joist and lath marks which appear are due to the fact that moisture condenses on the coldest surface. The coldest surface on the ceiling is between the lath, where, by the way, there is twice as much plaster as over the face of the lath and dust settles in this moisture. Under the lath there is more protection and less condensation, hence less dust, and under the joists or rafters, which afford all the protection needed, the ceiling maintains its natural color. Particularly is this true of churches and public auditoriums where ceilings are high, causing an unusually large temperature difference. Decorating in this type of building is very expensive and can be minimized by the correct use of insulation.

While the amount of insulation and its application naturally varies with the particular type of construction and the re-

sults desired, it can be safely said that the applied cost will be rapidly repaid by the fuel economy effected. In addition, the initial cost of installation can be largely and in some cases entirely offset by a reduction in radiation and boiler capacity.

The following items have been taken from a report of tests made by the Bureau of Standards, Washington, D. C., to give the reader an idea of comparative insulating values. Figures given indicate the heat transmission in B .T. U. per square foot, per degree difference in temperature, per twenty-four hours, per 1 inch *thickness.*

Gypsum Plaster, 56.0; Virginia Pine, 23.0; 85% Magnesia, 12.0. As compared to these materials, there are several commercial insulators in the market having transmissions varying from 6.5 to 8.0. In selecting such a material its cost should be determined on its thermal value as furnished for commercial use as compared to that use in test work.

Whether the building be a home or a factory, if it is to be heated, there is a definite need for insulation. From the standpoint of comfort and economy every thoughtful designer and builder should advocate its use as a big step toward better construction.—*Building Industry.*

THE COAL CRISIS CREATES POPULAR INTEREST IN HEATING SMALL HOMES BY OIL

BY A. V. HUTCHINSON, in *Building Age*

Every home bulider's ambition is to discover some way of having his home heated to a comfortable temperature, without the exertion required to shovel in coal and shovel out the ashes, as well as to eliminate the dust and dirt accompanying these operations. His wish, to just push a button and have heat, can be gratified now, thanks to skill of engineers, who have attained their objective in perfecting oil burning equipment for small house heating plants.

Just imagine being able to lie in bed and know that the house will be at a temperature of 70 deg. in the morning without any effort on your part, or that just the throwing of a switch in the bedroom will start the burner immediately. Many reasons can be found for the impetus given fuel oil burning devices beside coalless days, shortage due to strikes and transportation and high prices.

The advantages that recommend fuel oil for domestic use are its cleanliness, uniform temperature and flexibility in meeting weather change, efficient and smokeless combustion, the fact that it is not affected by weather conditions, that less labor is required for operation, ash removal and minimum space needed for storage.

The present styles of oil burning devices are in the nature of attachments to existing types of coal burning boilers and furnaces, which can be quickly and economically changed for attaching the oil burner. The most important items are the installation of the oil storage tank and piping, which are governed by the fire underwriters' rules and local ordinances. Four distinct types of burners have been developed, and each has a big following in its particular section.

One of the first places to use oil for heating the home was the Pacific coast, and special burners for California crude oil were made. Oil burners also have made their appearance in the Middle West and East, and are adapted for the kind of fuel oil available. These have withstood the severe test of actual service for several years with entire satisfaction to the owners both from a service and cost standpoint.

Where the winter weather is severe, burners that are automatically controlled are popular, while in the far west, where intermittent service is all that is required, rotary burners are in the leading position. They burn a heavier grade of oil than the other types found farther east. In recommending which is the right burner for a house heating plant the builder should consider the following factors: Is service or economy desired? What will be the nature of the service required? Is fuel oil easily obtainable? What is the best type of burner?

For ideal heating the two governing factors are efficiency and economy, and when oil is used as the fuel these two conditions rest to a large extent upon the burner. Efficient service requires that the burner must be positive in action, able to operate over long periods without attention and convert the oil into such form that the greatest amount of heat will be realized from a given amount of oil, without noise or dirt.

A vaporizing type of burner is designed for round steam and hot water boilers rated up to 500 sq. ft., warm air furnaces with fire-pot diameters of 18 to 26 in., and in a different arrangement for square sectional end boilers. The burner is held in the fire-pot on a standard, the goose-neck of the manifold resting on a fire-door ledge. Oil from a cellar tank flows under pressure to the vaporizing tube or generator, from which the vapor flows through a hand-controlled needle valve into the manifold to the burner heads. The height and volume of the flame are controlled, and there are no moving parts to get out of order. To start the burner either a gas flame or an alcohol primer is used. The cellar storage tank is fitted with an air gauge and motor driven air compressor or hand pump if electric current is not available. Little attention is required by this burner, it being necessary to regulate the flame about twice a day, the air compressor being automatically controlled.

Automatic Working Systems

Three burners atomizing the oil mechanically and operating under themostatic control are the Nokol, Aeroil and Williams. A uniform temperature of 70 deg. or any other desired temperature can be maintained, and the home owner need never worry about going home to tend to the fire.

Nokol consists of a theremostat and electrical control box attached to a blower or atomizer, a combustion chamber with constantly blowing pilot light and oil storage tank. Oil flows to float chamber, where needle valve maintains proper level. Action of themostat starts blower, causing fine spray of oil to be fed in combustion chamber, where pilot light ignites it. Safety devices will shut off oil if pilot light fails, if dirt interferes with needle valve action the machine will stop, failure of current will cut off oil, so that every precaution has been provided. Nokol is made for steam and hot water boilers and warm air furnaces, and has received approval from the National Board of Fire Underwriters.

Aeroil is a burner made in four sizes *to* handle house heating boilers rated from 500 to 10,000 sq. ft. of radiation. A motor driven blower and oil pump are mounted on standards directly in front of the feed door, and the oil and air line enter the fire chamber, turn downward and discharge the flame against a special deflecting plate resting on the grate. When the thermostat acts the oil lights from a constantly burning pilot light, the burner operating until the home is raised to the proper temperature.

The Williams burner is automatic, oil being delivered to an atomizing chamber, where it is mixed with the correct amount of air supplied by a blower driven by an electric motor. A special control switch and themostat complete the equipment, which will handle house heating systems rated up to 10,000 sq. ft. of steam radiation.

Atomizing by Steam

Oil for the Caloroil burner is atomized by means of steam, a generator being mounted on the base plate located in the firebox of the heater. An oil tank supplies the oil nozzles automatically, water is supplied from the city main to the steam generator, and the steam escapes from specially designed nozzles and combines with the required amount of oil and air for proper combustion. A gas or gasoline primer is provided for starting the burner, and the control is by means of a thermostat if desired.

All of the rotary types of burners are hand-fired, as they are used in communi-

ties where intermittent heating is required. The intense flames made by these burners make it necessary to brick-up the fire-pot of the heater for best results.

The ray burner is a very compact unit, consisting of a totally encased motor with extended hollow shaft to center of which worm gear is fastened, and with blower and atomizer at opposite ends. It is made in a number of sizes for boilers and furnaces, for either direct or alternating current. The burner is fastened to the ash-pit door hinged so that it can be swung out of the way.

Atomizing by Centrifugal Force

In the Johnson rotary burner the oil is atomized by a centrifugal device and is made for heating plants rated up to 10,000 sq. ft. of steam radiation. The fire is started by closing the motor switch, turning on the oil regulating valve and holding a light in the fire box. Thermostatic action will turn off the burner when the proper temperature is reached. Johnson burners are made for either direct or alternating current, are hinged to the ash-put door and are made with or without oil pump.

An oil burner for boilers as small as 250 sq. ft. rating are the Fess types. Oil is atomized by rotary action and mixed with the right amount of air supplied by a blower. Air and oil are carried by separate lines, and a novel burner construction produces an intense but soft flame.

Efficiency of House Heaters

Experience and test have shown that the effifficiency of house heaters had been raised by 15 to 20 per cent. when oil fuel is used. Quicker response from the heater is possible and greater efficiency is obtained from fuel oil. It must always be remembered, however, that a heating plant with an oil burner attachment is only as efficient as the boiler or furnace to which it is attached even though all of the heat units are obtained from the oil.

What Will It Cost?

One of the particularly pertinent questions that will be brought up by the home builder will be, "What will it cost to heat with oil?' This cannot be answered for the whole country by one statement, but an outline of some of the factors entering into the selection, installation and operation of oil burning units should be considered, and will give a basis for accurate judgment. First is character of building; second, style condition and efficiency of heater, amount and cost of coal consumed, labor and cost of ash removal and firing of coal, dirt and inconvenience involved.

It has been found that 100 gallons of oil will do the same work as 1 ton of high-grade coal when good operating conditions exist. The oil used in the vari- burners ranges from 26 to 39 Baume, so that by getting the price of the kind used it is easy to figure how it will compare with coal cost. Tank wagon delivery for New York is about 8 cents per gallon.

Figures on Oil Consumption

A Chicago installation, with an automatically controlled mechanical atomizing burner ,operating for 151 days during the 1920-21 heating season, in a steam boiler supplying 475 sq. ft., consumed 1,585 gallons of oil, or an average of 3 gallons per hour, to maintain a constant temperature of 70 deg. As the maintaining of a uniform temperature with coal is possible only when constant attention is given the heater, and, as this is infrequent with the average home installation, it is safe to assume that when coal was burned in this house during the night, when the fire was banked, that the room temperature was around 50 deg. for some hours. This might mean that a little more than 100 gallons of oil was used to a ton of coal, though no figures are available. However, the owner feels satisfied that the comfort derived more than compensated for the few extra dollars.

With the average house construction and to be on the safe side figuring an oil consumption of 100 to 120 gallons of oil equal to a ton of coal would be good practice. The vaporizing burners will show a lower fuel consumption than the mechanical burners, and these figures can be baten if thermostatic operation is used only in severe weather.

Study of Fuel Oils

Some knowledge of the properties of fuel oil are desirable, for the oils from the different fields vary in content, but vary slightly in heating value. Fuel oil is a refinery by-product resulting from the distillation of crude petroleum. It is heavier than the crude from which it comes, and will not burn readily until atomized or vaporized and mixed with the proper amount of air. A blazing stick or live coal will die out before it will ignite the oil.

The question of oil supply and storage are of vital concern when considering its use for heating. Present production and consumption, though very large, will not exhaust available supplies for many generations, and in this country large untouched shale areas promise much, according to Geological Survey reports. Present pipe line transportation methods from oil fields to refineries insures a continuous supply in all kinds of weather, so that in areas adjacent to refineries and distributing centers plenty of fuel oil is assured.

Storage of Oil

The reserve storage tanks, recommended by burner makers to house owners, range from 250 to 1,000 gallons capacity, depending on the estimated consumption. On the Pacific Coast as much as a month's supply in reserve is often provided.

Underwriter's rules and local ordinances govern the storage of oil in homes and the burner manufacturers have met these specifications in designing their apparatus. Pumps, air pressure, hydraulic, gravity (where permitted), and other patented systems are used and have been perfected and simplified.

Less Space Needed

In addition to the cleanliness and other advantages of uniform temperature, ease of control and minimum attention required when oil is burned, the home builder can figure to use the basement or cellar for something more than a rough storage space.

With a little space necessary for oil storage plenty of room is available for a billard room, playroom, maid's room or something of the kind, which would be impossible when coal is used, because of dust and dirt and the room it requires for its storage—about 45 cubic feet per ton.

Advantages to Builders

Also there is the commercial side, for the builder who sells his house. If an oil system with its many advantages is installed an exceedingly good scales and service argument is available, and the house will commend a better price with but little extra initial cost. There are many places where oil can be successfully used for heating the home, but care should be exercised so that perfect satisfaction will be assurred.

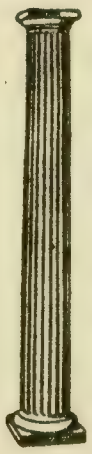
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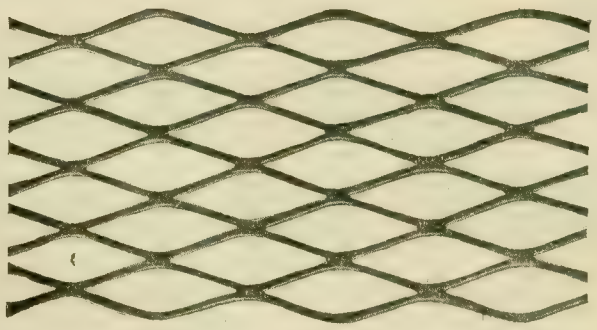


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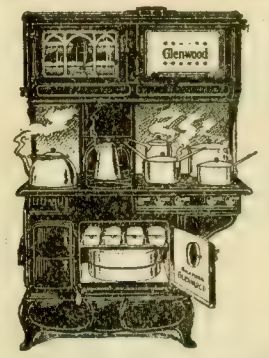
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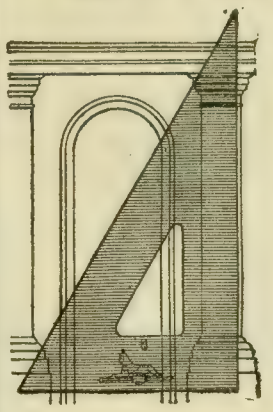
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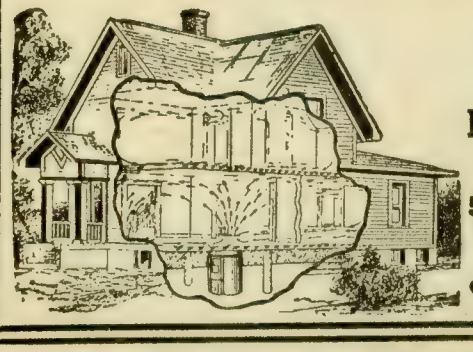
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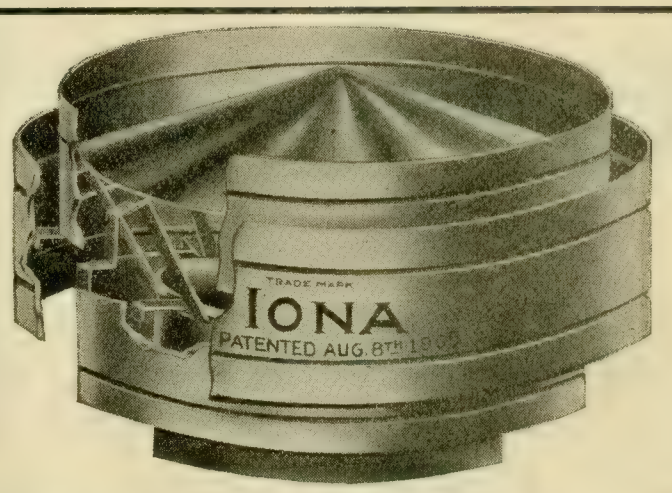
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RANGES

Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATORS.

Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

ROAD WORK.

Croyle, Guy .....Merion Station, Pa.

ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,
2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.
Tinney, Walter H., Co.,
63rd and Woodland Ave., Phila.

ROOFING SLATE.

Chapman Slate Co. .....Bethlehem, Pa.
Emack, The John D., Co. .....Otis Bldg., Phila.

ROOFING TILE.

Ketcham, O. W. .....121 N. 18th St., Phila.
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,
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SAFETY GUARDS.

Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

SAND AND GRAVEL.

DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co.,
24th and Callowhill Sts., Phila.
Magna Sand Co. .....139 S. 3rd St., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

SEWER PIPE.

Clausen, Wm. H. .....27th and Diamond Sts., Phila.
Fitzgerald, J. J., & Co..2nd and Butler Sts., Phila.

SHEET METAL WORK.

Tinney, Walter H., Co., 63rd and Woodland Ave

SHEETROCK (Wall Board)

Pearce Fireproof Co. .....1345 Arch St., Phila.

SHINGLES (Asbestos and Asphalt).

Asbestos Shingle, Slate and Sheathing Co.,
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SLATE

Emack, The John D. Co. ..... Otis Bldg., Phila.

SOUNDINGS.

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Pearce Fireproof Co. .....1345 Arch St., Phila.
Tague, Jas. E., Co. ...10th and Columbia Ave., Phila.

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Clausen, Wm. H. ....27th and Diamonds Sts., Phila.
Fitzgerald, J. J., & Co..2nd and Butler Sts., Phila.

WATER HEATERS.

Borden Stove Co. .....1026 Arch St., Phila.
Fleck Bros. .....44 N. 5th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

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Bayless, W. L., & Son.....Sharon Hill, Pa.
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Bayless, W. L., & Son.....Sharon Hill, Pa.
Southern, Wm. B.,
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Berko Bros. .....Randolph and Wood Sts., Phila.
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Cyclone Fence Co. .....18 S. 7th St., Phila.

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November 15, 1922

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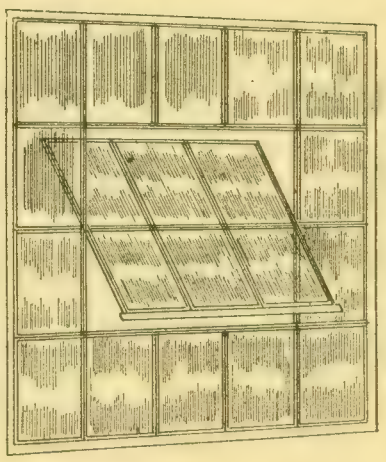
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 46

PHILADELPHIA
November 15, 1922

BUILDERS' GUIDE

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As The Editor Sees It

EVERYONE is well aware of the scarcity of both common and skilled labor for the building trades. The scarcity of common labor is greatly augmented by the present restrictive immigration laws, for, after a man has been in this country for a while, he is very apt to graduate from the common labor class, and industry turns to immigration for a new supply. New methods must be devised to make up for this shortage, and, as necessity is the mother of invention, contractors are already beginning to solve this problem. Dow service tells us that in New York "scarcity of common labor has forced excavating contractors to employ mechanical digging, hoisting and carrying devices. In other days it was almost impossible for human brawn to make profitable progress against frost, snow, ice and sleet. Then it was necessary to wait until the spring thaws came before rock and earth work could be started. Now these factors are no real barriers and by the time the excavating work is finished, the rail deliveries are less likely to be delayed by snow and storm and the operation goes through with better progress and is in better position to be handled by the renting agents than are those, forced to operate on over-time bases toward the finish of the job, thereby often adding considerable to the cost of the building, in extras, etc."

Complaints are heard that not enough men are entering the ranks of apprentices to meet the demands for skilled labor, and in every city ways and means are being devised and discussed to make apprenticeship more alluring. Quite the last word along this line is the recent step taken by the New York Building Congress, and in *Building Industry* we read:

New York Building Congress to Make Carpenters

Bulletin No. 2 of the New York Building Congress gives the entire modus operandi of making mechanics in the wood working trades.

There is every evidence of much hard and conscientious work on the part of men composing the General Apprenticeship Committee and it will be most interesting to see to what extent their honest and intelligent efforts are rewarded by the young men who are presented with every opportunity of becoming proficient and useful craftsmen.

After reading the thirty rules and regulations and the so-called exhibits, one can almost envision the apprentice riding to his place of employment in a limousine with liveried chauffeur, a wreath of bay leaves on his head and a group of young girls, clad all in white, strewing flowers in his path, while his employer backed by the entire office force waits with due reverence and uncovered head, the coming of one who with the approval of the Building Congress and the Building Trades Council has consented to accept at has hands, an education combined with a liberal stipend.

Rules 18, 19 and 20 provide that "the course of study to be taught apprentices in school instruction shall include related mathematics, trade sketching and drawing, shop practice, related science, general information as suggested, in Exhibit 'E', discretionary on development as related to job employment of the apprentices at the time the instruction is given which shall conform to city and state educational requirements."

"The apprentice shall be supervised at work and in school by highly qualified educational experts who shall report periodically to the General Apprenticeship Committee as to the progress and satisfaction rendered."

"A complete record of the apprentice's performance shall be kept by the educational advisor of the Congress and reported semiannually to the Carpenters' Joint Committee— being subject to examination at all times."

And what, one asks, does the apprentice pay for all this fostering care and education? Not one penny beyond one day's pay twice a year. On the contrary he is awarded most liberally for accepting all these advantages.

His employer is supposed to pay for the privilege of educating him, a daily wage for the first six months equal to 30% of that paid a skilled mechanic. Such

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wage to increase substantially at the end of each six months period until the ninth six months shall have brought his wages up to the journeyman's level, after which, if no position as foreman or superintendent is open, he may consent to remain employed under a foreman who is necessarily far beneath him or he may go into business for himself. In which latter case he will, of course, bless the system which created him.

Rule 21 says "In case of a dissatisfaction on the part of the employer or the apprentice, either one has the right and privilege to appeal at any time to the General Apprenticeship Committee of the Congress for the necessary action and adjustment."

This rule is of special interest as it makes a distinct reference to the employer, the man who is allowed to pay, and actually concedes to him, under this particular rule, equal rights with the apprentice for which he should be duly grateful.

Here are the influences that watch over the apprentice during the period of his apprenticeship and have more or less authority over him.

The New York Building Congress, the General Apprenticeship Committee, the New York Building Trades Council, the Federation of Labor "the highly qualified educational experts" who "supervise his work," the Carpenters' Joint Committee, the City Board of Education and—let us see—Oh, yes, the employer, who pays the princely wages which are apparently based on the fact that the boy, being at least sixteen years of age has a family to support.

All this relates to the making of a carpenter and it proves successful may be applied equally well to other trades.

It may work out perfectly in New York, we hope it does, but are are skeptical of the success of its operation in other localities, particularly those in which the employer is, at least nominally, still the boss.

John A. Quinn, of Philadelphia, chairman of the Apprentices Committee of the Master Plumbers' Association, appeared before the Industrial Board Department of Commerce and Industry of Pennsylvania to explain what training their Association is giving to the apprentices in this trade.

The Plumbers' Association, he said, is co-operating with the Philadelphia Trade Schools in connection with the Public Schools System. Their program is to take the boy from high school and instruct him in the essentials of the plumbing industry.

Commissioner C. B. Connelley, Department of Commerce and Industry, State of Pennsylvania, asked why they waited until the boy is out of high school before teaching him the trade. Quinn replied that it was done to assure them that their apprentices have the value of business training and general intelligence to insure a higher type of men in the trade.

"You would be surprised to know how many plumbers today know little about business. There are some plumbers, I am forced to admit, who do not know how to make a bank deposit."

The full committee of the Plumbers' Association will appear before the Board at an early date when the question of apprenticeship will be discussed at length. The Indutrial Board has jurisdiction in apprenticeship training only insofar as it applies to the enforcement of the Child Labor Law.

AIMS AT STABILIZING CONSTRUCTION

New York Building Congress Works on Plans to Keep Labor Employed Steadily

Makes Recommendations

The New York Building Congress is initiating a program to reduce the cost of building by adding more seasons to the industry, thereby eliminating both the rush periods, when bonuses are frequently paid, and the periods of unemployment.

As a result of a survey, which lasted four months, it was found that custom is really the biggest influence in causing the peak loads on the demand for labor, especially during the renting seasons. Careful business foresight is needed more than anything else to effect lower costs, with less waste, higher quality of workmanship and greater production, according to the reports.

Rental Periods a Factor

The periods for renting three distinct types of construction, apartments, loft buildings and commercial buildings, have an important bearing on the labor demands. Apartments are built to be ready for occupancy by October 1, loft buildings by February 1, and commercial buildings by May 1.

The new construction most subject to control is Government and municipal work, religious and educational structures and private residences.

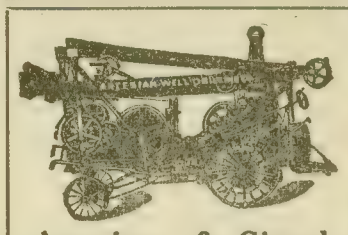
Five Recommendations

As an aid to all factors interested in construction, the Congress makes the following recommendations:

1. Establish a wide range of rental dates.
2. Regulate governmental, religious and educational and private building to come during the low period.
3. Encourage beginning work earlier.
4. Plan repair work for low period.
5. Whenever possible, adapt demand for inside and outside work to available labor.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Trade School, Spring Garden to Brandywine, West of Thirteenth. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Stone, brick and steel, 3 stories, 150x171 feet. Plans in progress. Will take bids after first of the year.

Office Building, 5223-25 Chestnut street, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, W. Edwin Blair, 5945 Chestnut street, Philadelphia. Stone, 1 story and mezzanine. Preliminary plans in progress.

Synagogue, Fifty-fourth and Wynnefield avenue, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Har Zion Temple, care of architect. Stone. Preliminary plans in progress.

Residence (alts. and add.), Fifty-fourth and Wynnefield avenue, Philadelphia. Architect, Herman H. Kline, Penn Square Building, Philadelphia. Owner, name withheld. General alterations and additions. Preliminary plans in progress.

Residence, Pelham road, Germantown, Philadelphia. Architect, Edwin L. Rothschild, 1430 Chestnut street, Philadelphia. Owner, Louis A. Hirsch, 919 Walnut street, Philadelphia. Stone, brick and steel. Preliminary plans in progress.

Store and Residence (alts.)), to Bank and Apartments, Northwest Corner Eighth and Catherine streets, Philadelphia. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owners, F. Roma & Brothers, Real Estate Trust Building, Philadelphia. General interior alterations, hot water heating, electric lighting, plumbing. Plans in progress.

Residence (alts.) to Apartments, Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. General alterations to 3-story residence, hot air heating, plumbing, tile work, carpentry, mill work, hardwood floors. Plans in progress.

Residences (2) (alts.) to Stores and Apartments (2), Frankford. Architect, Samuel D. Milner, 1117 Foulkrod street, Frankford, Philadelphia. Owner, name withheld. Carpentry, mill work, slag roof, hardwood floors, plumbing, electric lighting, tile work, plate glass. Plans in progress.

Garage, Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Stone and reinforced concrete, 1 story, 20x40 feet, concrete roof and floor, waterproofing, electric lighting. Plans in progress.

Residence, Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Stone, half timber and stucco, 2½ stories, 28x38 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

Residence (alts.) to Bank, Broad and Louden streets, Philadelphia. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Logan Bank & Trust Co., W. Harry Weller, 1338 Ruscomb street, Philadelphia. General alterations. Plans in progress.

Wagon Shed, 328-30 Weikel street, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, R. Levin, on premises. Frame, 15x20 feet, wood supports, cement footings. Owner is ready for bids.

Residences (8), Nineteenth and Ruscomb streets, Philadelphia. Architect, private plans. Owner, H. S. Lagrange, 4827 Walnut street, Philadelphia; Preston 4163-J. Brick, 2 stories, 15x40 feet, slag or tin roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner ready for bids due as soon as possible.

Stores and Apartments (4), Sixty-third and Overbrook avenue, Philadelphia. Architect, private plans. Owner, J. H. Mocke, Jr., Sixty-ninth and Market streets, Philadelphia. Brick, 2 stories, slag roof, hardwood floors, electric lighting, tile and marble work, metal bulks, plate glass. Owners will take sub-bids.

Store (alts.), Kensington avenue and Cumberland street, $3,300. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Co. of America, 1218 Market street, Philadelphia. Painting, glazing, demolition, heating repairs, electric lighting, plumbing, pine floors, plastering, bond. Architects will build.

Store Front, 305 North Tenth street, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, S. Katz, 249 North Tenth street, Philadelphia. Metal bars, plate glass, brick work, carpentry, mill work. Owner is ready for sub-bids.

Garage and Dance Hall, Wyoming avenue and Mascher street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, P. Dandolfi, Forty-first and Poplar streets, Philadelphia. Brick, 2 stories, 50x200 feet, slag roof, steam heating, electric lighting, cement and wood floors. Owner is taking sub-bids.

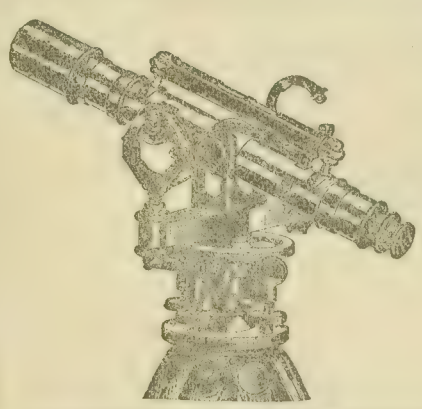
Junior High School, East Washington Lane and Musgrave street. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Plans about completed. Owners will advertise for bids November 20th, due December 7th.

Stores and Residences (2), Residences (20), Almond, Livingston and Ann streets, Philadelphia, $100,000. Architect, Herman H. Kline, Penn Square Building, Philadelphia. Owners, Solomon Brothers, Ninth and Walnut streets, Philadelphia. Brick, 2 stories, 16x50 feet and 15x38 feet, slag roof, pine or hardwood floors, hot water heat, electric light, tile work, metal ceilings, flush bulks. Owners taking sub-bids.

Hotel (add.), 1313-1315 Locust street, Philadelphia, $30,000. Architect, Thomas W. Lamb, New York City, and 1724 Market street, Philadelphia. Owners, J. A. Richman Realty Co., Thirteenth and Chestnut streets, Philadelphia. Brick, 1 story, 24x52 feet. Architect will sub-let.

Boiler and Warehouse, Northeast Corner Keystone and Cottman streets, $75,000. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, L. H. Gilmer Co., Tacony, Philadelphia. Brick, concrete, 3 stories, 93x151 feet, slag roof, electric lighting, steel sash, cement floors. Owners will build.

Kindergarten Building, Coulter street, Germantown, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Germantown Friends' School, on premises. Brick, hollow tile, stucco and cut stone, 1 story, 30x73 feet, slate roof, oak and cement floors, metal lath, iron work, hot water



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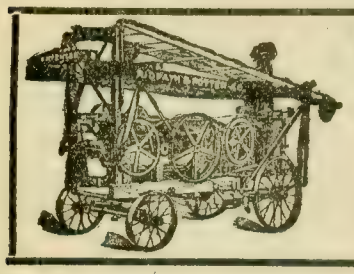
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heating, electric lighting, tile work. Architects taking bids due November 20th.

Apartment House, Forty-second street above Baltimore avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Emmanuel Zinn, 831 Cherry street, Philadelphia. Brick and steel, 3 stories and basement, 50x120 feet, will contain 30 apartments, slag roof, hardwood floors, terra cotta, tile and marble work, steam heating, electric lighting. Architects taking bids due November 16th.

Storage House, rear of 1724-26 Jackson street, Philadelphia. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, Tony Piacentino, on premises. Brick, 2 stories, 25x36 feet, slag roof, pine and cement floors, electric lighting. Owner and architect taking bids due as soon as possible.

Store and Residence (alts. to Bank and Apartments), Northwest Corner Eighth and Christian streets, Philadelphia. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owners, F. Roma & Brothers, Real Estate Trust Building, Philadelphia. Brick, 3 stories, general alterations, electric work, carpentry, mill work. Architect taking bids due as soon as possible.

Building (alts. and add.), 2825-27 North Broad street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Irvin King, 132 South Fourth street, Philadelphia. Concrete work, structural steel, carpentry, mill work, demolition, painting, electric work, plumbing, plastering, bond. Architect taking bids.

Garage, Southwest Corner Twenty-third and Ionic streets, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owners, Estate of F. A. Poth, Thirty-first and Jefferson streets, Philadelphia. Brick, steel and concrete, 1 story, 68x70 feet, slag roof, cement floors, roof ventilators, hollow metal skylights, mill work, steam heating, electric lighting. Owners taking bids due as soon as possible.

Residence (3 stores add.), Southeast Corner Sixtieth and Thompson streets. Architectural engineer, M. H. Boonin, 1506 North Alden street, Philadelphia. Owners, Michael and John Croco, care of architect. Brick and steel, slag roof, pine and composition floors, metal lath, plate glass, hollow metal skylights, electric light. Owners are taking bids.

School, Third and Duncannon streets, Philadelphia. Owners, Board of Educataion, Nineteenth above Chestnut street. Lowest bidders: Cramp & Co., Denckla Building, Philadelphia, $428,562; Ketcham & McQuade, 1029 Brown street, $436,000. Electric work, Blumenthal Kahn Electric Co., Baltimore, Md., $16,838. Heating, McClintock Brothers, 5316 Webster street, $45,300. Plumbing, Hurst Brothers, Columbia avenue, $20,263. Ventilating, W. Howlett & Co., Fourth and Columbia avenue, $1,409.

School, Ninth and Oregon avenue, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. McCloskey Co., 1629 Thompson street, Philadelphia, $406,666; M. Melody & Son, 1322 Race street, Philadelphia, $455,000. Heating, Thompson Brothers, 520 Buttonwood street, $47,800. Electric, Blumenthal Kahn Electric Co., Baltimore, Md., $9,190. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, $1,948. Ventilating, W. Howlett Co., Fourth and Columbia avenue, $1,860.

School, Germantown and Southampton avenues, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Lowest bidders: Cramp & Co., Denckla Building, $444,297; Ketcham & McQuade, 1029 Brown street, $460,000. Heating, McClintock Brothers, 5216 Webster street, Philadelphia, $45,000. Electric, Blumenthal Kahn Electric Co., Baltimore, Md., $16,738. Plumbing, Thompson Brothers, 520 Buttonwood street, Philadelphia, $26,100. Ventilating, W. Howlett Co., Fourth and Columbia avenue, Philadelphia, $1,409.

Public Garage, 1824-1828 Germantown avenue, Philadelphia. Owner, name withheld. Architect, Herman H. Kline, Penn Square Building, Philadelphia. Brick, steel and concrete, 2 stories, 45x151 feet, slag roof, concrete floors, steam heat, electric lighting. Plans completed. Architect ready for bids in a few days.

Residences (34), West side Cedar Park avenue, North of Pittville avenue, $5,000 each. Owner, Daniel Crawford, Jr., 3904 Chestnut street, Philadelphia. Brick, 2 stories, 15x30 feet, 12x8 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (64), Rittenhouse, McMahon, Chew and Boyer streets, Philadelphia, $418,000. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut Terrace. Brick, 2 stories, 16x41 feet, 15x40 feet and 15x28 feet, 12x12 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Producer Building, Northwest Corner Carbon and Tioga streets, $30,000. Architect, private plans. Owners, U. G. I. Company, Broad and Arch streets, Philadelphia. Brick, 3 stories, 47x54x26 feet, slag roof, cement floors. Owner will build.

Residences (10), 5600-18 North Sydenham street, $60,750. Architect, private plans. Owner, William J. Baltz, Sixty-sixth and Lawnton avenue, Philadelphia. Brick, 2 stories, 16x31 feet, 12x13 feet, slag roof, oak and pine floors, electric light. Owner will build.

Public Garage, 1824-1828 Germantown avenue, Philadelphia. Owner, name withheld. Architect, Herman H. Kline, Penn Square Building, Philadelphia. Brick, steel and concrete, 2 stories, 45x151 feet, slag roof, concrete floors, steam heat, electric lighting. Plans completed. Architect ready for bids in a few days.

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Residences (10), 5600-18 North Sydenham street, $60,750. Architect, private plans. Owner, William J. Baltz, Sixty-sixth and Lawnton avenue, Philadelphia. Brick, 2 stories, 16x31 feet, 12x13 feet, slag roof, oak and pine floors, electric light. Owner will build.

Residences, Stores and Garages, Rockland, Boudinot and C streets, $95,000. Architect, private plans. Owner, Isadore Finestine, 1018 East Tioga street, Philadelphia. Brick, 2 stories, slag roof, oak, pine and cement floors, hot water heat, electric light. Owner will build.

Residences (16), Fourth and Wyoming avenue, Philadelphia, $80,400. Architect, private plans. Owner, Charles G. Erny, 4665 Paul street, Philadelphia. Brick, 2 stories, 16x28 feet and 13x10 feet, slag roof, electric light, hot water heat. Owner will build.

Residences (2), Southwest Corner Andrews and Cedar Park avenue, and Northwest Corner Pittsville and Cedar Park avenue, $7,000 each. Owner, Daniel Crawford, Jr., 3904 Chestnut street, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (4), South side Howarth, West of Oakland, $6,000 each. Architect, private plans. Owner, Harry Drake, 3139 Frankford avenue, Philadelphia. Brick, 2 stories, 20x37 feet 5 inches, slag roof, hardwood and pine floors, electric light, hot water heat. Owner will build.

Residences (7), East side Eighth street, South of Cayuga street, $4,000. Architect, private plans. Owners, F. W. Biddle & Co., 4651 North Fifth street, Philadelphia. Brick, 2 stories, 14x30 feet, 11x11 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (14), North side Eleanor street, East of C street, $4,000. Architect, private plans. Owners, T. P. & P. J. McFarland, 2409 East Allegheny avenue. Brick, 2 stories, 16x27 feet, 12x10 feet, slag roof, hot water heating, electric lighting. Owners will build.

Residences (24), West side Palethorp street, North of Wingohocking, $3,200. Architect, private plans. Owner, Burton C. Simon, Twentieth and Prospect avenue, Philadelphia. Brick, 2 stories, 14x31½ feet, 6x10 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residence, East side Ninety-first street, North of Essington avenue, $3,000. Architect, private plans. Owner, Boris Jassick, 124 New street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hot air heating, electric lighting. Owner will build.

Garage, 6719 Yocum street, Philadelphia, $2,000. Architect, private plans. Owners, France & Missar, 6725 Yocum street, Philadelphia. Brick, 1 story, 16x98 feet, slag roof, cement floors, electric lighting. Owners will build.

Buildings (3), Sixty-third and Chelwynde avenue, $6,750. Architect, private plans. Owner, Joseph J. Connor, 6313 Dicks avenue, Philadelphia. Brick, 1 story, 17x100 feet and 16x85 feet. Owner will build.

Sales and Service Building, 1415 North Broad street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Lessee, Edward Wilkie Motors Co., 917 North Broad street, Philadelphia. Brick, steel, terra cotta, stone and concrete, 4 stories, basement and mezzanine, 37½x160 feet, steam heating, electric lighting, elevators, tile and marble work. Plans in progress. Architect will take bids about December 15th.

Residence, McCallum street and Mt. Airy avenue, Philadelphia. Architect, not yet selected. Owner, W. K. De Victor, Real Estate Trust Building, Philadelphia. Work contemplated in spring of 1923.

Convent, 240 Hermitage street, Manayunk, Philadelphia. Architect, John A. McKibben, Industrial Trust Building, Wilmington, Del. Owners, Roman Catholic Church of the Holy Family, Rev. William Grace, Manayunk, Philadelphia. Architect taking bids due November 22nd.

Recreation Centers, Twenty-seventh and Clearfield streets and Forty-seventh and Aspen streets, Philadelphia. Architect, John B. P. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Board of Recreation, Bureau of Public Welfare, 595 City Hall, Philadelphia. Concrete retaining walls, sidewalks, painting, iron fences and gates, cement steps. Owners taking bids due November 15th.

Apartment House, Southeast Corner Forty-second and Walnut streets, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, J. B. Thompson, care of architect. Brick, concrete, steel, terra cotta, stone, 4 stories, 115x175 feet, steam heating, electric lighting, tile and marble work, hardwood floors. Plans about completed. Architect will be ready for bids in a few days.

Residence, Midvale avenue, Queen Lane Manor, Philadelphia. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Harry M. Hughes, Delmar Morris, Germantown, Philadelphia. Hollow tile, stucco, cut stone, 2 stories, 60x30 feet, shingle roof, oak and pine floors, hot water heating, electric lighting. Revised plans in progress.

Building (alts. and add.), 910 South Tenth street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Gareta Crocco, on premises. Brick, 3 stories, 15x46 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work, hollow metal skylights. Owner is taking bids.

Miscellaneous Work, Philadelphia. Owners, City of Philadelphia, Frank H. Caven, Director, 216 City Hall. Branch sewers, intercepting sewer through lowlands of Fortieth Ward, water piping, air piping, air lifts at Northeast

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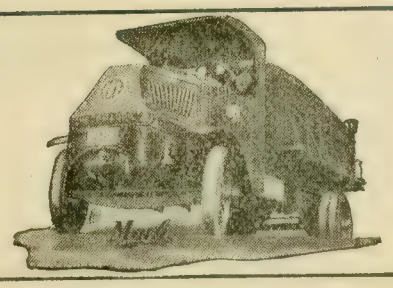
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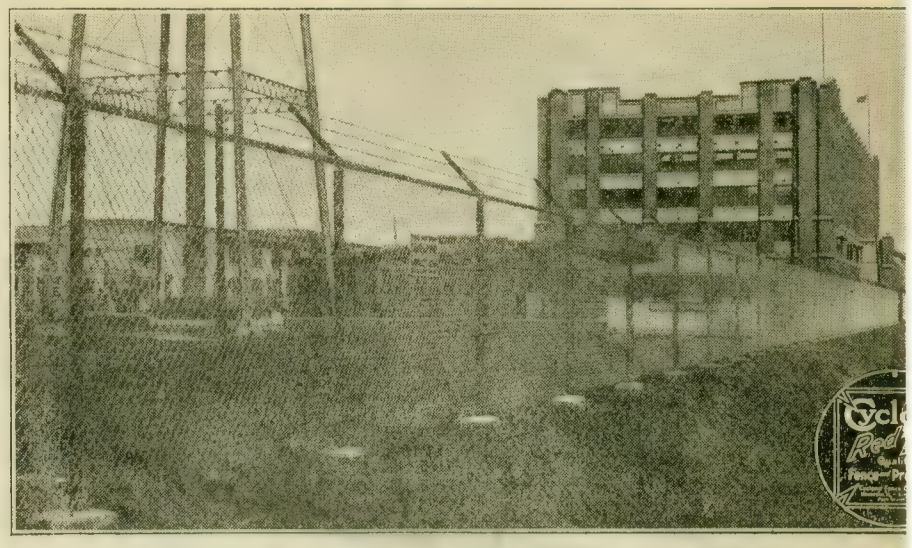
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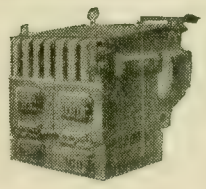
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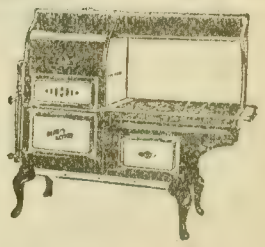
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Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 10, 1922. Sealed Proposals will be received at this office until 3 P. M., December 4, 1922, and then opened for an extension to the building and driveway, and remodeling, at the United States Court House and Post Office, at Altoona, Pa., in accordance with the specification and drawings mentioned therein, copies of which may be had at this Office or at the office of the Custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

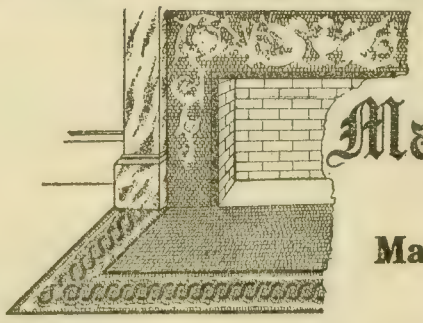
Warehouse, Thirty-first and Master streets, Philadelphia. Architect, private plans. Owners, American Stores Co., Noble and York streets, Philadelphia. Reinforced concrete and brick, 6 stories, 400x100 feet, slag roof, concrete floors, elevators, rolled steel sash, steam heating, electric lighting. Contract awarded to A. B. Kister, 1204 Chancellor street, who will take bids on concrete work from White Const. Co., Widener Building; Hughes Foulkrod Co., Commonwealth Building; Turner Const. Co., 1713 Sansom street, and Drehmann Paving & Const. Co., 2622 Parrish street. A. B. Kister will take bids from a selected list of sub-contractors.

Building, Fifth and Willow streets, Philadelphia, $500,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Paper Manufacturers' Co., 562 Cherry street, Philadelphia. Reinforced concrete, steel and brick, 6 stories and basement, 120x180 feet, slag roof, electric lighting, steam heating. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Store and Apartments (alts.), Southeast Corner Twenty-second and Christian streets. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Benjamin Lander, Sixteenth and Christian streets, Philadelphia. Brick, 1 story, 10x16 feet, slag roof, composition floors, metal ceilings, hot water heat, electric lighting, marble work, plumbing. Contract awarded to Geo. E. Hawk, 1628 North Twelfth street, Philadelphia.

Stores and Apartments (alts. and add.), 39 North Fifty-second street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Donovan, 132 South Fiftieth street, Philadelphia. Brick, steel and cut stone, 3 stories, 16x16 feet, slag roof, pine and oak floors, bond, tile and marble work, demolition (heating and electric work reserved). Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

Stores and (2) Family Residence, Sixth and Passyunk avenue, Philadelphia. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, Annible Vernacchio, Southeast Corner Seventh and Pemberton streets. General alterations, brick work, carpentry, stucco, plastering, composition floors, plate glass, electric work, plumbing. Contract awarded to Tony Pomo, 3510 Vincent street, Tacony, Philadelphia.



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Store and Apartments (alts. and add.), Southwest Corner Fifty-fifth and Chester avenue. Architects, Charles Bolton & Son, Witherspoon Building, Philadelphia. Owner, Nelson Fry, Nineteenth and Arch streets. Brick and cut stone, 2 stories and basement, 19x19 feet, slag roof, pine floors, iron work, demolition. Contract awarded to Sutton & Stephenson, 1317 Washington avenue.

Offices, Residence and Garage (alts. and add.), 1734 Harrison street, $10,000. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Karl F. Koenig, on premises. Brick, 1 and 2 stories, 14x36 feet and 14x26 feet, slag roof, maple floors, hot water heat, electric lighting. Contract awarded to Rush Brothers, 1016 Harrison street, Philadelphia.

Residence (alts.), Torresdale avenue and Frankford avenue, Philadelphia. Architect, Henry D. Dagit Sons & Co., 34 South Seventeenth street, Philadelphia. Owners, St. Katherine's Roman Catholic Church, Rev. J. A. Coakley, premises. Cement work, carpentry, mill work, stone work, painting, glazing, plastering, electric work, steam heat, plumbing. Contract awarded to William J. Ford, 1946 West Harlan street, Philadelphia.

Storage House, rear of 1724-26 Jackson street, Philadelphia. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, Tony Piacentino, on premises. Brick, 2 stories, 25x36 feet, slag roof, pine and cement floors, electric lighting. Contract awarded to A. Nardi & Son, 761 South Thirteenth street, Philadelphia.

Garage, 241-43 Richmond street, Philadelphia, $5,000. Architect, private plans. Owner, Patrick J. Quigley, 239 Richmond street, Philadelphia. Brick, 1 story, 36x65 feet, slag roof, cement floors, electric work. Contract awarded to Albert Dell, 1532 East Berks street, Philadelphia.

Residence and Garage, West side Oak road, South of School Lane. Owner, George C. Stephenson, on premises. Stone, 3 stories, 27x60 feet, garage, 1 story, 20x22 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, cement work. Contract awarded to William J. Gruhler Co., 219 East High street.

Residence (alts. and add.), 7048 Germantown avenue, $7,000. Owner, W. H. Jarden, Mermaid Lane, Chestnut Hill, Philadelphia. Brick, 2 stories add., 18x17 feet, slag roof, electric lighting, general alterations. Contract awarded to Samuel Harting & Sons, 70 East Johnson street.

Residence, Northwest Corner Rising Sun avenue and Longshore street, $6,500. Architect, private plans. Owner, Mrs. John Adair, 6900 Rising Sun avenue, Philadelphia. Brick, 2 stories, 20x51 feet, slag roof, electric light, oak and pine floors. Contract awarded to John Y. T. Adair, 6900 Rising Sun avenue.

Building (alts.), Southeast Corner Spring and Darien streets, $4,500. Architect, private plans. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. New slag roof. Contract awarded to Franklin M. Harris & Co., 1520 Parrish street.

Warehouse (alts.), Northeast Corner Penn and Unity streets, $7,500. Architect, Horace M. Hokanson, 1713 Sansom street, Philadelphia. Owners, Frankford Grocery Co., Inc., on premises. Carpentry, mill work, cement work, painting, glazing. Contract awarded to Barclay White Co., 1713 Sansom street.

Residence (alts.), 1008 Clinton street, Philadelphia, $5,000. Architect, private plans. Owners, St. Stephen's Protestant Episcopal Church, 19 South Tenth street. General alterations. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Residence, East side Montour street, North of Shelmire street, $4,500. Architect, private plans. Owner, Frank Weber, 3626 North Percy street, Philadelphia. Frame, 1 story, 24x28 feet. Contract awarded to Evert & Goodnow, Fox Chase, Pa.

Garage (add.), 768-70 North Forty-sixth street, Philadelphia, $2,000. Architect, private plans. Owner, Henry Wothman, 780 North Forty-sixth street, Philadelphia. Brick, 1 story, 45x40 feet, slag roof, cement floors. Contract awarded to Harry G. Walters, 412 North Fortieth street.

Residence and Store (add. and alts.), 725 Oxford street, $4,300. Architect, private plans. Owner, Samuel Berger, 1948 North Eighth street, Philadelphia. Brick, 2 stories, 16x18 feet, slag roof, electric lighting. Contract awarded to General Realty Co., 349 South Fourth street.

Residence, Southeast Corner Castor and Fuller streets, $5,150. Architect, private plans. Owner, Charles W. Sheffield, 1300 Harrison street, Philadelphia. Frame, 2 stories, 24x48 feet, electric lighting. Contract awarded to William T. Garrison, 1338 North Tenth street, Philadelphia.

Residences (2), 3344-46 H street, Philadelphia, $3,500 each. Owner, William L. Hascher, 2005 East Allegheny avenue, Philadelphia. Brick, 2 stories, 15x28 feet, 11x25 feet, hot water heating. Contract awarded to W. A. Bottoms, 3314 I street, Philadelphia.

Residence, South side Duval street, East of Anderson street, $3,500. Architect, private plans. Owner, Margaret Whalen, 5714 Crittenden street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, electric light. Contract awarded to William Pinkerton, 210 Lincoln Drive, Philadelphia.

Garage, Northeast Corner Letterly and Jasper streets, Philadelphia, $2,700. Owner, John Wechterman, Southeast Corner Jasper and Cumberland streets. Brick, 1 story, 14x50 feet, slag roof, cement floors, electric work. Contract awarded to D. J. McNamee, 1621 North Fifteenth street, Philadelphia.

Residence, West side Ninety-first street, South of Crothers avenue, $3,000. Architect, private plans. Owner, Hugh J. Nuldrury, 122 New street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hot air heating, electric lighting. Contract awarded to D. Keoret, 122 New street, Philadelphia.

Office, West side Memphis street, North of Tioga street, $2,750. Architect, private plans. Owners, Green Box Co., on premises. Brick, 2 stories, 20x30 feet, slag roof, pine floors. Contract awarded to Harry S. Barnes, 2080 East Willard street.

Garage, 2511-13 North Hope street, Philadelphia, $2,500. Architect, private plans. Owner, Harry H. Dilton, 2508 North Front street, Philadelphia. Brick, 2 stories, 20x38 feet, slag roof, cement floors, electric light. Contract awarded to Charles H. S. Zebley, 340 Quince street.

Garage, 2009 Ridge avenue, Philadelphia, $2,000. Architect, private plans. Owner, Miss Ruth McAlonan, 1611 Brown street, Philadelphia. Brick, 1 story, 20x30 feet, slag roof, cement floors, electric light. Contract awarded to M. McAlonan, 1609 North Sydenham street, Philadelphia.

Apartment (alts. and add.), 2005 North Twenty-second street, Philadelphia, $2,000. Architect, private plans. Owner, Mr. S. Hogopian, on premises. Brick, 1 story add., 6x7 feet, slag roof, electric lighting. Contract awarded to M. K. Boyajian, 6237 Market street, Philadelphia.

Store and Apartment (alts. and add.), 2520-22 North Broad street, Philadelphia. Architect, private plans. Owner, Samuel Pflaum, on premises. Brick work, plastering, steel tile, 2 stories, 40x52 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to D. J. McNamee, 1621 North Fifteenth street, who will be ready for sub-bids in one week.

Residence, Abington avenue, West of Stenton avenue, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Theobald F. Clark, care of architect. Stone, 2½ stories, slate roof, oak and pine floors, hot water heating, electric lighting, tile and marble work. Contract awarded to E. Allen Reeves, Inc., Abington, Pa.

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PENNSYLVANIA Construction News

Home, Middletown, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Pennsylvania State Home, I. O. O. F., care of architect. Brick, limestone, reinforced concrete, structural steel, 3 stories, 295x157 feet, built-up roof, composition floors, dampproofing and waterproofing, terra cotta, iron work, floor hardener, bond, fire doors, hollow metal skylights, tile and marble work, steam heating, electric lighting, kitchen equipment, refrigeration. Architect selected. Preliminary plans in progress.

Men's Dormitory Building, State College, Pa., $2,000,000. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, State College, State College, Pa. Brick, stone and steel, 2 and 3 stories. Preliminary plans in progress.

Junior and Senior High School, Norristown, Pa., $250,000. Architect, Oliver R. Parry, Builders' Exchange, Philadelphia. Owners, Norristown Board of Education, Harry Akin, president, Orphans' Court, Court House, Norristown, Pa. Brick, 2 stories. Preliminary plans in progress.

Home (alts. and add.), Hanover, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, American Legion, C. Earl Good, Hanover, Pa. Brick, 1 story, 46x72 feet, slag roof, hardwood floors, hollow tile, metal lath, steam heat, electric light, tile work. Plans in progress.

High School, Barnesboro, Cambria County, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Barnesboro Township, care of architect. Brick, fireproof, 2 stories. Sketches in progress.

Store Room (alts. and add.), Steelton, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Mr. Hemanier, 198 South Front street, Steelton, Pa. Brick, 1 story add., plate glass, partitions. Plans in progress.

Apartment (alts. and add.), Second street, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, E. L. Lyme, 1417 Williams street, Harrisburg, Pa. Brick, 2 and 3 stories, 40x14 feet, tin roof, pine floors, electric lighting. Plans in progress.

Garage, Allentown, Pa. Architect, C. W. Grossart, 603 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, concrete, steel, 2 stories, 40x115 feet, asphalt roof, steam heat, electric light, rolled steel sash, freight elevators. Preliminary plans in progress.

Residences (4 twin), Allentown, Pa., $32,000. Architect, C. W. Grossart, 603 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, 1½ stories, 32x40 feet, asbestos shingle roof, hardwood floors, pipeless heat, electric light, tile work. Plans in progress.

Gasoline Station and Stores (4), Kingston, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, name withheld. Hollow tile and stucco, 1 story, 120x143 feet, built-up roof, hardwood and concrete floors, steam heating, electric lighting, metal ceilings. Plans in progress.

Store (alts.), West Market street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. General interior alterations, leaded and plate glass, tile and marble work. Plans in progress.

Apartment House, Sixty-ninth Street Section, West Chester Pike, Upper Darby Townshsip, Pa., $350,000. Architects, MacKenzie & Wiley, Lincoln Building, Philadelphia. Owners, Clarence Terry and Max Levey, care of architects. Stone front, brick and steel, 4 stories, approximately 100x200 feet. Preliminary plans in progress.

Church, Lemoyne, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, United Evangelical Church, Rev. Crumbling, Lemoyne, Pa. Architect selected.

Bungalow, Penfield, Pa. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owner, name withheld. Brick and stucco, 1½ stories, 34x44 feet, slate roof, pine and hardwood floors, hot water heating, electric lighting, tile work. Plans in progress. Architect will be ready for bids in two weeks.

Apartment House, Cynwyd, Pa., $200,000. Architect, Richard C. Loos, 2218 Chestnut street, Philadelphia. Owners, Kier Const. Co., Franklin Trust Building, Philadelphia. Stone and brick, 4 stories, will contain 32 apartments. Plans in progress.

Apartment House (alts. and add.), South Fifth street, Sunbury, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, W. R. Rorback, 1040 E. Market street, Sunbury, Pa. Brick, 2 stories, 38x60 feet, hardwood floors, vapor heat, electrtic lighting, plumbing, tile work. Owner is taking bids.

Stores (4) and Apartments (5), Bryn Mawr, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owners, Pace & Bongiovanni, Merion, Pa. Brick, 2 stories, 77x115 feet, slag roof, maple floors, metal lath, metal bulks, hollow metal skylights, hollow metal sash, tile work, hot water heating, electric lighting. Charles C. Pace, Merion, Pa., is taking sub-bids due as soon as possible.

Residence, Merion, Pa. Architect, William Macy Stanton, 1524 Chestnut street, Philadelphia. Owner, J. P. Hipple, care of architect. Stone, 2 stories, 35x28 feet. Revised plans in progress. Architect is taking sub-bids.

'Varsity Hall, State College, Pa. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, State College, State College, Pa. Brick and stone. Architects will take bids.

Garage, Maple street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owners, Hart Auto Co., care of H. A. Foering, 46 East Broad street, Bethlehem ,Pa. Steel, concrete, brick, 1 story and basement, 60x120 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash, fire doors, metal lath. Owner taking revised bids.

Warehouse, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, A. W. Gortner & Son, Shamokin, Pa. Brick and concrete, 2 stories, 125x49 feet, slag roof, pine floors. Owners taking bids.

Residence and Garage, Rydal, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owner, Mrs. C. E. Doan, Rydal, Pa. Stone, 2½ stories, 35x80 feet, slate roof, hardwood and pine floors, vapor heating, electric lighting, tile and marble work. Architect taking bids due November 17th.

Bank and Apartment (alts.), Galitzen, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, Union Saving Trust Co., care of architects. Partitions, tile and pine floors, electric light, tile and marble work, general interior alterations, metal window guards, bank fixtures, vault, ornamental iron work. Architects taking bids due November 20th.

Bank, Emaus, Pa. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owners, Security Trust Co., Dr. J. Backenstoe, president, Emaus, Pa. Stone, brick and steel, 1 story, 50x80 feet, slag roof, terrazzo floors, vapor heat, electric light, metal lath, tile and marble work, roof ventilators, vault, bank fixtures, terra cotta, ornamental iron work. Architect ready for bids due November 30th.

Residence, Conshohocken, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, James Craig, Conshohocken, Pa. Brick, 2 stories, 28x30 feet, roof undecided, pine floors, hot water heat, electrtic lighting. Owner is taking bids.

Road Work, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa. Lowest bidders on road work opened November 3rd:

Cambria County, R-276, Washington and Cresson Townships and Lilly Borough, 15,568 feet. One course reinforced concrete. Leechburg Const. Co., Inc., Leechburg, Va., $135,-

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shsip, 7,604 feet. One course reinforced con-920.06.

Crawford County, Route 200, Sparta Township, 7,604 feet. One course reinforced concrete. J. C. Devine Co., Alliance, Ohio, $63,536.41.

Warren County, Appli. 154-1092, Farmington and Pine Grove Townships, 23,024 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Fred C. Chiodo, Sheffield, Pa., $164,489.94.

Store and Residence, Jessup, Pa. Architect, J. V. Russoniello, Scranton Life Building, Scranton, Pa. Owner, Angelo Cappellili, 910 Church street, Jessup, Pa. Frame, 2 stories, 40x24 feet, asphalt shingle roof, hardwood floors, steam heat, electric light, plate glass. Plans in progress.

Residence, Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Axel Pellgarid, Board of Trade Building, Scranton. Frame, 2 stories, 26x38 feet, shingle roof, hardwood and pine floors, steam heat, electric light. Owner ready for bids.

Duplex Residence, Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Thomas Protherae, 838 Monroe street, Scranton, Pa. Frame and stucco, 2 stories, 30x55 feet, asphalt shingle roof, hardwood floors, steam heat, electric light. Architect taking bids due November 15th.

Cottage, Dallas, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owner, C. S. Woolworth, Scranton Life Building, Scranton. Field stone, 2 stories, 36x28 feet, shingle roof, hardwood floors, steam heat, electric light. Owner is building.

Pennsylvania Contracts Awarded

Residence, Scranton, Pa. Architects, Morris & McHale, Mear Building, Scranton, Pa. Owner, Martin Gill, Clay street, Scranton, Pa. Frame, 2½ stories, 30x40 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile work. Contract awarded to James Niland, 907 Beech street, Scranton.

Hall (repairs), Scranton, Pa., $10,000. Architect, V. Russoniello, Scranton Life Building, Scranton, Pa. Owners, St. John's Society, care of James Hayes, president, Miller Building, Scranton, Pa. General interior and exterior alterations, asbestos shingle roof, hardwood floors, electric light, fire repairs. Contract awarded to Boland Brothers, 427 Spruce street, Scranton.

Factory (alts. and add.), 112 Adams avenue, Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, Clark & Snover Co., on premises. Brick, frame, 2 and 5 stories, irregular size, mastic floors, steam heat, electric light, metal lath, freight elevators, hollow metal sash, fire doors, waterproofing. Contract awarded to Hagen Lumber Co., Scranton, Pa.

Manufacturing Building, Carlisle, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, care of Mr. Herr, Green and Woodbine streets, Harrisburg, Pa. Brick, fireproof, 1 and 2 stories, 88x100 feet, composition roof, concrete floors, steam heat, electric light, hollow tile, metal lath, rolled steel sash and skylights, roof ventilators, hollow metal doors, floor hardener. Contract awarded to J. W. Pomraning, Kunkel Building, Harrisburg, Pa.

Bank (alts.), Millersburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, First National Bank, care of architect. General interior alterations, composition and tile floors. Contract awarded to Harold Helwig, Millersburg, Pa.

Church, Paxtang, Harrisburg, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, Paxton Presbyterian Church, Rev. King, Paxtang, Pa. Stone, 1 story and basement, 35x65 feet, slate roof, hardwood floors, steam heat, electric light, metal lath, waterproofing and dampproofing. Contract awarded to B. Frank Saussman, Harrisburg, Pa.

Residence, 102 Lansdowne Court, Lansdowne, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Brick and frame, 3 stories, 52x27 feet, 2 stories, 16x20 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile and marble work, oil burning equipment. Contract awarded to Christian E. Hanson, Penn Boulevard, East Lansdowne, Pa.

Residence, Bentley Road, Cynwyd, Pa. Architect, private plans. Owner, Mrs. M. C. Rawlings, 5615 Kingsessing avenue, Philadelphia. Frame and stucco, 2 stories, 22x30 feet, shingle roof, pine and oak floors, hot air heating, electric lighting. Contract awarded to John Borylis, Manoa Heights, Pa.

Residence (add. and alts.) to Apartment, East King street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Dr. S. W. Miller, on premises. Brick, 2 stories, 15x20 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to D. S. Warfel, 39 East Grant street, Lancaster, Pa.

Cottage, St. David's, Pa. Architect, Louis S. Adams, 1703 Chestnut street, Philadelphia. Owner, A. G. Rosengaren, Ninth and Parrish streets, Philadelphia. Frame and stucco, 2½ stories, 34x15 feet, slate roof, oak and pine floors, pipeless heater, electric lighting, iron work. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. York County, R-333, Fairview and Newberry Townships, 20,088 feet. One course reinforced concrete and hillside vitrified brick. $215,365.25. Contract awarded to Kumer & Graeber, Shamokin, Pa.

Store (alts. and add.), 525 North Sixth street, Allentown, Pa. Architect, C. W. Grossart, 603 Hamilton street, Allentown, Pa. Owner, Leib Kramer, on premises. Copper front, 1 story, 11x30 feet, rubberoid roof, pine floors, tile work, plate glass, rolled steel skylights, metal ceilings. Contract awarded to A. O'Donnell, Allentown, Pa.

School (high), Parson, Pa. Architect, R. A. Herr, Simon Long Building, Wilkes-Barre. Owners, Parson School Board, R. Wallace, secretary, Parson. Brick, 2 stories and basement, 99x110 feet, slag roof, hardwood floors, hollow tile, electric lighting, rolled steel skylights, roof ventilators. Contract awarded to H. Mailander, 167 Barney street, Wilkes-Barre, Pa.

New Jersey Construction News

Church and Sunday School, Vineland, N. J. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owners, Congregational Church of the Pilgrim, Rev. John Harper Macmillan, Vineland, N. J. Brick, steel and concrete, 2 stories and basement, 50x97 feet, slate roof, concrete floors, vapor heating, electric lighting, tile work, leaded glass, folding partitions, cut stone, structural iron. Plans about completed.

Store and Apartment (alts. and add.) and Garage, Broad street, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, H. Silverstein, 332 South Broad street, Trenton, N. J. Brick, 1 story, 12x8 feet, 18x22 feet, hardwood and concrete floors, electric light, metal ceilings. Plans in progress.

Residences (2), Broad street, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, M. Keller, 457 South Broad street, Trenton, N. J. Brick, 3

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stories, 13 feet 9 inches x 46 feet each, slate and tin roof, pine floors, pipeless heat, electric light. Architect ready for bids.

Store and Apartments (4), Moorestown, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Brick and cut stone, 2 stories, 95x70 feet, slag roof, pine floors, hot water heating, electric lighting, tile and marble work, metal bulks. Plans in progress. Ready for bids in a few days.

Residence and Garage, Ocean City, N. J. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, George S. Russell, Land Title Building, Philadelphia. Frame and stucco, 3 stories, 30x50 feet and 9x19 feet, shingle roof, electric lighting, pine, cement and hardwood floors. Owner will take bids.

Factory, North Clinton street, Trenton, N. J., $6,000. Architect, private plans. Owners, Empire Tire & Rubber Co., North Clinton and Mulberry streets, Trenton, N. J. Steel, frame and brick, 1 story, 48x90 feet, slag roof, rolled steel sash. Owners will build.

Store and Residence, Bellevue avenue, Trenton, N. J. Architect, private plans. Owner, G. A. Smith, 613 Edgewood avenue, Trenton, N. J. Brick, 2½ stories, 16x28 feet, slate roof. Owner will build.

School, Trenton, N. J. Architects, associate, William H. Slack & Son and E. Sibley, Trenton, N. J. Owners, Board of Education, County of Mercer, Trenton, N. J. Brick and steel, 2 stories and basement, 130x24 feet and 156x55 feet, 124x50 feet and 53x99 feet, slag roof, cement and maple floors, metal lath, dumb waiter, roof ventilators, dampprooofing, iron work and stairs, floor hardener, bond, hollow metal doors, rolled steel skylights, tile, marble and terrazzo work (heating, etc., separate bids). Lowest bidders: Karno Smith, Trenton, N. J., $448,000; Charles J. Smith, Trenton, N. J., $454,217. Electric, Biard Osterhout Co., 2109 Walnut street, Philadelphia, $15,000. Heating, Dechman Plumbing & Heating Co., Camden, N. J., $50,988. Plumbing, Trenton Plumbing & Heating Co., Trenton, N. J., $29,986.

New Jersey Contracts Awarded

Twin Residences, 233 South Olden street, Trenton, N. J., $8,000. Architect, private plans. Owner, Samuel Wyers, 824 Quinton street, Trenton, N. J. Brick, 2½ stories, 14x42 feet, slate roof, pine floors. Contract awarded to Jackson Brothers, Trenton, N. J.

Miscellaneous Construction News

Residence and Garage, Winston-Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. A. Kent, Winston-Salem, N. C. Brick and hollow tile, 2½ stories, slate and tile roof, oak floors, vapor heating, electric lighting. New plans in progress.

Church, Washington, D. C. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Calvary Methodist Episcopal Church, Washington, D. C. Brick and stone. Plans in progress.

Factory, Milford, Delaware. Architect, private plans. Owners, Cellulose Products Co., Charles A. Camillo, president, Marcus Hook, Pa. Plans in progress. Too early for details.

Boat House, Upper Saranac Lake, N. Y. Architect, Paul Livingston Boyd, 6943 Limekiln Pike, Philadelphia. Owner, George H. Kirby, care of architect. Frame, 2 stories, 37x36 feet, shingle roof. Contract awarded to Arch K. Schock, 45 West Green Lane, Chestnut Hill, Philadelphia.

WHAT ARE BUILDING COSTS?

BY A. P. GREENSFELDER, *Fruin-Colnon Contracting Co., St. Louis, Mo.*

People frequently discuss building costs as if bricks and bricklayers, materials and labor were the only items worthy of consideration. Broadly speaking, men and materials do comprise the total expense in construction work, just as they do in any other article produced by civilized man.

What we wish to emphasize, however, is that most people really think that the walls and floors of a building, the visible completed objects, are the only costs that enter into the expense of erection. They think differently, however, when they find it ncessary to buy a stick of wood at the lumber-yard or a pair of hinges at a hardware store, which may be needed for an extra partition after they have moved into the new building.

From their own books business men know just the sort of expense items they must add to the cost for fixed charges, operating expense and legitimate profits. They understand that their selling prices must include rent, taxes and insurance, contingency charges, interest and profits.

Builder Has "Overhead"

The builder is a merchant. He is also a manufacturer, differing from the usual producer in that the builders factory is portable and frequently without a roof, at least until nearly the end of the job. The builder has a fixed office, a warehouse and yards for storage of machinery and materials. The annual upkeep of these adjuncts must be sustained by field construction executed during the year.

The builder also has selling expense. He must advertise and call upon architects, engineers and owners before he secures a customer. He must pay his estimator to make a quantity survey of the plans, because the owner does not tell him what he tells everybody else he buys from—the quantity of materials he wants to purchase. The builder's purchasing agent then locates the materials at market prices; and, after careful estimates are made, conference held and a financier consulted, a contract is made with a future owner and the builder assumes the title and agency of a contract.

As agent, the contractor arranges to incur the following expenses: surety bonds, liability, fire and tornado insurance, building permits, water license, city inspection fee, temporary public utilities service, transportation of materials and drayage of equipment. Not a single item would be visible to a visitor to the building site, and yet they may constitute 10 per cent. to 15 per cent. of the cost. Then there is bank interest, because the owner does not advance money for payrolls and material bills. There is also ice and coal, oil, stationery, carfare, postage, rope, perishable tools, scaffolding, demurrage, war taxes and other miscellaneous items which are consumed.

Equipment Costs High

On a job of any size at all, the contractor must provide labor-saving equipment, such as concrete mixers, steam shovels, derricks, hoisting machines, power saws and similar machinery. While they are truly labor-saving and produce economy, they cost about 4 per cent. of their value each month. Then there is the greatest of intangibles, brains, which, mingled with experience, knowledge, good judgment, aptitude and industry, produce that supervision which makes for good results. Brains insure satisfactory service. This is represented in the contractor's organization in many ways. The ablest superintendent, for instance, makes the fewest mistakes, has initiative, plans his work ahead, keeps his men working cheerfully together and gets a quality job done ahead of time within the estimated cost. Such men earn good wages and are worth it. Every merchant and manufacturer knows how scarce leaders are.

Then appear such contingency items as frost, rain, labor strikes, railroad delays and accidents, many of which are common to most industries, but all of which frequently confront the contractor. The law of averages applies the proper charge on such items to the work. Finally, to the actual outlay for materials and labor must be added a remuneration for the contractor sufficient to induce him to remain in business, subject to hardships and risks, and yet keep his financial credit good enough to start the next job.

Do you still think men and materials embrace all building costs?—The Constructor.

September was the fifth consecutive record-production month in the portland cement industry according to figures of the United States Geological Survey just released. Daily production was at the rate of 381,000 barrels, as compared with 376,000 in August, the best full month on record. Since April production has been at a monthly rate well over 1,000,000 barrels in excess of the best previous month on record. Shipments during September, although totaling less than August, because of transportation difficulties and car shortage, were at the rate of over 1,600,000 bags per day. (There are four baks in a barrel of 376 pounds.)

As portland cement enters into practically every form of construction and is used as soon as shipped during summer months, figures as to shipments of that commodity serve as the best index of construction activity. The enormous construction program now under way is the biggest single factor in hastening the return of business prosperity.

Shipments of portland cement this year will probably total close to 110,000,000 barels, as compared with 98,000,000 during 1920, the best previous year. For the past five months portland cement plants of the country have been producing at the rate of 137,000,000 barrels per year, which means that when the farmers and the railroads again enter the construction market, there will be plenty of this useful material to meet their needs.

That the popularity of steel basement windows will increase among home builders, as did the use of steel sash among industrial builders, is unquestioned. Ten years ago, steel sash was practically unknown among the building trade. Today, it is used in factory buildings, stores, office buildings, schools, banks and even hotels. This increased use of steel sash has been brought about by educating building owners, architects and contractors to its many advantages. In like manner, the home owner, contractor and architect will come to look upon steel basement windows with favor and satisfaction.

Steel basement windows have several important advantages over wood windows that are sure to appeal to the thoughtful home owner and builder.

They admit from 40% to 80% more daylight for the same sized masonry opening. The sash and frame are made from solid, narrow, rolled steel bars, eliminating the wide wooden members and permit the use of larger glass lights.

Steel windows cannot stick or warp. The difficulty experienced by every home owner in trying to open or close his windows, when the sash has swollen and stuck, is entirely eliminated. Steel is not affected by moisture.

Screens may be attached easily to the outside of the frames. Holes are punched through the frame so that special screen frames are unnecessary.

Because of their construction, steel windows resist fire and stand up under hard usage. They always have a better appearance than wooden windows, and add to the attractiveness of a house.

Here is one fact of interest to contractors and builders. Steel windows with channel frame construction save labor and expense in installing. This type of window will set upright on the still without bracing and it has the important additional advantage of serving as a guide to the mason. The channel frame makes it impossible to build the wall so close that it will bind the ventilator. The outside leg of the channel frame is somewhat longer than the inside leg. The mason builds the wall snugly against the front leg, filling the channel with mortar as he goes up. Anchorage is secured by means of four straight flat pieces of steel about 1″ by 4″ long. These are laid in the mortar joints in such a way that the ends extend about ½ inch into the channels at the jambs.

One advantage of steel basement windows, which appeals to architects, contractors and dealers, alike is the fact that they are standardized and made in only a few popular sizes. This assures the architect or contractor that he will not have the delay, the extra cost and trouble which invariably accompany the purchases and installation of special sized wood windows and also permits the dealer to carry a sufficient stock with only a small investment, and sell at a price commensurate with wood.

Another point in favor of using steel basement windows is that of low initial cost both to the home owner and building supply dealer. Not only are they quoted at a price that successfully competes with wooden windows, but an additional saving is also effected, by the fact that these steel windows are completely equipped, sash hung, priming coat of paint applied, and all hardware in place.

COMPARATIVE STRENGTH OF AIR-DRIED AND KILN-DRIED WOOD

Some wood users claim that kiln-dried wood is brash and not equal in strength to wood that is air-dried. Others advance figures purporting to show that kiln-dried wood is much stronger than air-dried. But some 150,000 comparative strength tests, made by the Forest Products Laboratory, of the U. S. Forest Service, on kiln-dried and air-dried specimens of 28 common species of wood show that good kiln drying and good air drying have the same effect upon the strength of wood.

The belief that kiln drying produces stronger wood than air drying is usually the result of failure to consider differences in moisture content. The moisture content of wood on leaving the kiln is generally from 2 to 6 per cent. lower than that of thoroughly air-dried stock. Since wood rapidly increases in strength with loss of moisture, higher strength values may be obtained from kiln-dried than from air-dried wood. Such a difference in strength has no significance, since in use a piece of wood will come to practically the same moisture condition whether it is kiln-dried or air-dried.

It must be emphasized that the appearance of the dried wood is not a reliable criterion of the effect the drying process has had upon its strength. The strength properties may be seriously injured without visible damage to the wood. Also, it has been found that the same kiln-drying process can not be applied with equal success to all species. To insure uninjured kiln-dried material, a knowledge of the correct kiln conditions to use with stock of a given species, grade, and thickness, and a record showing that no more severe treatment has been employed, are necessary.

METHODS OF PLACING CONCRETE IN COLD WEATHER

BY A. J. R. CURTIS, *in Building Age*

None of the radical departures in building operations during the last few years carries greater economic possibilities than that of carrying on these operations continuously or nearly continuously throughout the year. Frequently, closing down for the winter means the loss of valuable time in the fall as well because of the fear that work started in moderate weather may continue after cold weather sets in.

Most building materials are easier to procure in the winter and sometimes at lower cost. Labor is usually more plentiful and labor turnover is less. Winter interruption to his business often means that the contractor has to rebuild almost an entire trained organization—frequently including technical and superintending forces and fifteen or more different trades —every spring.

Winter construction costs are usually somewhat higher, but nearly always worth more than they cost to the owner, because his income or benefits from the structure start months sooner and to the contractor because he can complete the work, take out his payments and look ahead to the next job. The construction season is thus profitably lengthened for both owner and contractor.

About the only important obstacle to winter construction has been the lack of an nuderstanding and application of the relatively simple precautions necessary t successful winter concrete work. Much winter concreting has been done successfully during the past ten years and some of the largest and finest construction work of the war period was completed with the thermometer around the zero point.

The contractor who carefully plans ahead can often complete all concrete portions of a job before severe cold weather sets in so that the remainder of the work may proceed regardless of outside temperature conditions. Concrete work started in October and November is usually subject to considerable economies, for concreting crews work most efficiently during moderate or cool weather.

Planning for Winter Concreting

The contractor who expects to undertake building work likely to involve placing of concrete in freezing weather will do well to arrange as early as possible for

necessary supplies of sand, gravel and stone. Rail priorities given to facilitate the movement of coal have already made it difficult to obtain cars for the movement of concrete materials and this situation can hardly be expected to improve until coal requirements have been taken care of.

Gravel pits cannot operate in the winter and they are usually compelled to close down with the first hard freeze. Materials wet in transit and frozen in the car are difficult and expensive to thaw out and unload. These facts are stated to emphasize the importance of arranging early and carefully following up deliveries of concreting materials.

Principal preparations for cold weather concreting consist of providing or conserving heat in the presence of sufficient moisture so that the concrete can harden uniformly and with reasonable rapidity. If concrete freezes, the hardening action stops, for the water, which must be depended upon to react with cement, has changed to ice and, as is well known, cement and ice do not react nor does concrete harden while frozen; but the formation of ice is accompanied by expansion which may spall or disfigure the surface of the work or interfere considerably with the strength.

For a period during the fall, the temperature at night may go down to freezing, although quite moderate or even warm during the day. It is usually possible under these and similar weather conditions to take care of concrete work satisfactorily by covering the work carefully in order to trap the heat present, when the concrete was placed, keeping out cold winds, rain and sleet. Even where the temperature does not go below freezing, covering the work is beneficial in hastening the hardening.

Protective Coverings

The nature and duration of this protection depends upon the character of the work to be protected and prevailing temperature conditions. Every covering should be tight, to resist and keep out wind and water. Beware of holes, tears or openings of any kind and be particularly careful to amply protect exposed producing portions of the work.

Contractors generally prefer tarpaulins as the most adaptable covering for concrete work of various kinds, large and small. Tarpaulins may also be effectively used to cover exposed piles of aggregates. Wooden housing makes the most substantial covering for whole buildings, floors of buildings, small and moderate size bridges and similar work, and where the expense can be justified or compensated by re-use of the lumber, it is commonly preferred.

Straw or manure is commonly used around low forms and for foundations and low walls. Manure must not touch freshly placed concrete. Building paper, where it can be properly suported, is an efficient rotection against cold winds and is used over walks and floors, frequently carrying a covering of straw or manure.

Heating the Mixing Water

When it becomes necessary to impart heat to the concrete in order to have it come through the first 48 hours at a temperature of 50 degrees or more which is recommended, heating of the mixing water is usually resorted to as the cheapest and easiest method. An effort is often made to deposit the concrete at a temperature of 80 or 90 degrees. To do this the water may be used at the boiling point. It may be well to observe that since it is only the water in concrete that freezes, a reduction of the mixing water somewhat from the quantities ordinarily used will be found beneficial.

The three most common methods of heating mixing water for concrete are as follows:

(1) By exhausting live steam in the water tank or barrel, a method which is adaptable wherever live steam is available;

(2) By running the water through a coil of pipe supported over a fire, perhaps the easiest arrangement where there is running water but no live steam, and

(3) By the use of kettles or tanks supported over a fire—suitable where neither live steam or running water can be obtained.

Heating Aggregates

As the weather grows colder it is even more desirable to get the concrete into the forms at high temperature and heating of the aggregates—sand and pebbles or stone—is usually the next of the progressive methods employed. Contractors are in a habit of heating these materials to from 100 degrees to 150 degrees, striving to deposit the concrete at 90 degrees or as near thereto as possible.

Fireboxes, made of sections of discarded smokestack, iron pipe or boilers, serve as efficient heaters, the materials being banked around them and turned occasionally to insure reasonable uniformity to heating. Some concrete contractors prefer to construct their heaters of steel plates laid on concrete blocks or similar supports, the materials being heaped on the flat plates from which it is easier to remove them.

Steam jets are occasionally used being long perforated pipes which are thrust into the piles and used as a means of exhausting steam into the materials. This apparatus is not used as frequently as formerly, experience appearing to show that where steam is available it is more efficient and convenient to supply the heat through a grid of steam pipes, laid upon the floor where the aggregates are piled. In this case the pipes do not exhaust the steam into the pile, but simply supply heat in the same manner as an ordinary steam coil. Tarpaulins are frequently used to cover the pile and retain the heat.

Cement forms a relatively small portion of the bulk of a concrete mixture and, therefore, need not be heated. It should be stored where well protected from moisture and extreme cold. Never depend upon the heat generated by the action between cement and water. It is inconsiderable.

Some Other Suggestions

In extremely cold weather heat is frequently supplied at the mixer. This has been done by exhausting steam in the mixer drum and providing the latter with "flaps" if necessary to retain the heat. Recently very efficient kerosene torches have been introduced for the same purpose. Location of the mixer and other detils should be arranged so that concrete will be carried in the quickest possible time to the forms, and with the least exposure.

Immediately before filling each small portion of the form, the ice is removed if any be present. A steam hose is a great help in melting ice and warming form surfaces. In the absence of steam an ordinary blow torch may be used to heat the surface of steel forms.

Salamanders (coke stoves) and steam coils are the more commonly used pieces of apparatus for heating enclosures. A recently invented salamander having a water pan to provide moisture as well as heat in the enclosure is considered particularly efficient. Oil stoves and large lamps are quite frequently used on smaller work in rural districts where they are more easily accessible.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVII, No. 47
November 22, 1922

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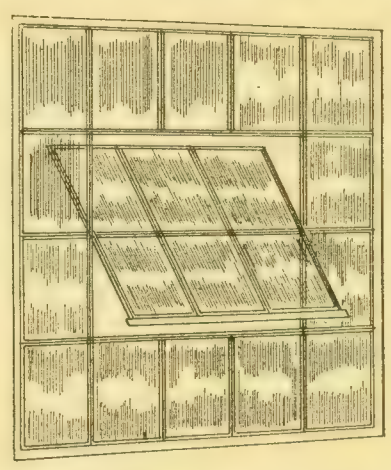
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¶ To be sure you are listed correctly under the classifications you desire, send names, addresses, Bell and Keystone 'phone numbers, and list of products you sell or manufacture, to 826 Perry Building, Philadelphia.

¶ Every firm or individual in any branch of Architecture or Building will be listed free. Listings include name, address, Bell and Keystone telephone numbers.

¶ Under all classifications advertisements will precede listings. To be sure your ad. will be in the 1923 Directory of the Architectural and Building Trades communicate at once with

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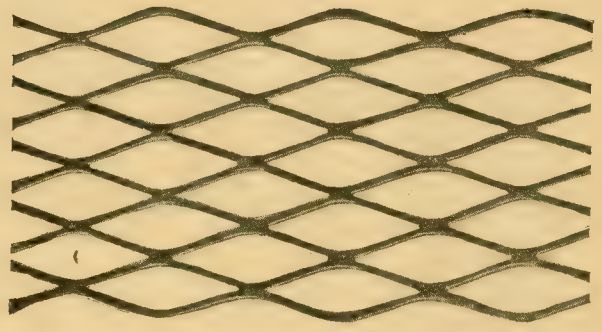


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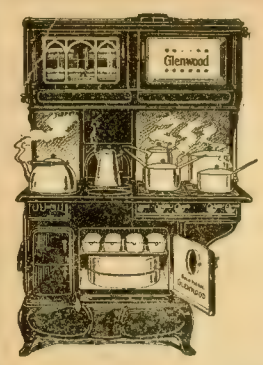
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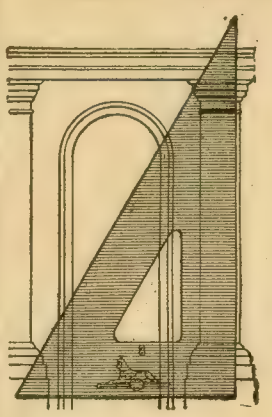
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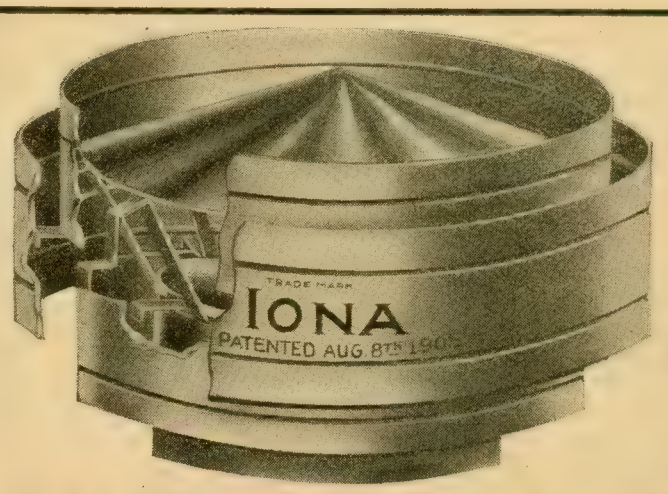
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 47

PHILADELPHIA
November 22, 1922

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
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As The Editor Sees It

IN last week's issue of the GUIDE we commented on the scarcity of both common and skilled labor in the building trades and some of the means employed to overcome the difficulties of the situation. We have, on numerous former occasions, urged the removal of the seasonal stigma from the building industry. Now the scarcity of skilled labor is, no doubt, to a certain extent, influenced by the seasonal character of construction and means should be sought to remove this obstacle. The New York Building Congress, which has carried on various investigations pertinent to construction and the allied trades, recommended a program which would reduce the cost of building by adding more seasons to the industry. At the same time such a program would inevitably draw many men into the industry who now prefer to follow other trades not affected by weather conditions.

The New York Building Congress *Bulletin* states:

"While the congress feels fully aware of the fact that an entire cure for seasonal employment is impossible on account of weather conditions, opportunity for investment, emergency and the will of the owner and speculator, still the opinion is general that much can be done to adjust elements that affect peak demands and as a result decrease much of the unnecessary cost and loss to which the building industry is now subjected.

"With this understanding the following recommendations are made in hope that they will be suggestive to owners, investors, real estate brokers, architects, engineers, material manufacturers, contractors, labor and others who may be interested in reducing costs and eliminating unemployment periods:

"1. Establish a wider range of rental period dates.

"2. Regulate Government, State, city, religious and educational building construction so that it will come during the low period of employment wherever possible.

"3. Regulate the construction of new buildings and additions that are erected for owners' prearranged occupancy without regard for investment returns so that it will come during the low period of employment.

"4. Encourage beginning work on new construction March 1 instead of the customary date of May 1, thereby bringing its labor demand two months ahead of the demand peak, with a greater supply available.

"5. Plan maintenance and repair work so that it will come during the season for which there is a low demand for the labor involved, subject to emergency conditions that must be considered.

"6. Wherever possible, adapt the demand for 'inside' and 'outside' work to labor available."

PLAN TO INSTRUCT BOYS IN PLASTERING

Steps were taken yesterday by the Philadelphia Building Congress, at its weekly meeting, toward the establishment of a training system for young men in the plastering trade. D. Knickerbacker Boyd, president of the congress, appointed a committee consisting of James F. Pearce, James S. Meade, Harry C. Woods and D. K. Boyd, to confer with the Master Plasterers' Company and the local plasterers' union to arrange for a meeting with the Board of Education.

Contractors, union labor officials, architects, engineers, builders and material men have promised to push the plan suggested, which it is believed will be acceptable to the Board of Education.

Several contractors offered their services as instructors, and material dealers have offered to provide free materials. The contractors offered practical instruction by sending their best workmen to teach the boys.

The Philadelphia Building Congress agreed to undertake the publishing of such instruction literature as may be required.

September slate sales keep up the pace set by August,—running over ¾ of million, and are 2% above 1920, and 4% above 1921,—according to 61 producing companies reporting to the National Slate Association. 30 of the concerns

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reporting show that September is the first month when the cumulative year's total of shipments in 1922 is 20% above 1921, and 10% above 1920.

Blackboard slate shipped in the first nine months of 1922 is only 10% behind the entire year's total of 1921, the largest blackboard slate year. As two of the largest producing blackboard quarries resumed operations in October after a 5 months' strike, there is no question but that 1922 will exceed 1921 by 15 to 25%. The increasing use of blackboard slate by industrial plants, railroad stations, newspaper offices, and other commercial places, in addition to the enormous educational building program now under construction, is responsible for this increased demand.

20% more roofing slate was shipped during September, 1922, than produced, but the stocks on hand would maintain that rate of consumption for several months. The added production of the two large quarries previously mentioned, will soon bring production up to the demand in most sizes, grades and colors. The demand for the stable blacks, greys, and weathering or sea green varieties is unusually good, as the public recognizes today more than ever the durability, importance and all-time cost of a roof and acknowledges slate's supremacy as an economic roofing material.

As expected, electrical slate September shipments were 25% higher than August, and are constantly increasing. Many large projects and buildings have reached the stage where electrical switch boards, panel boards, switch bases, etc., must be supplied.

Slate prices are holding firm. While fuel and car shortage embargoes materially delayed shipments during September and October, the acute situation is now somewhat relieved. Although considerable trouble in getting cars sufficient for shipments is still the rule, contractors and other slate users, appreciating the situation, are anticipating their slate needs and allowing more time between placement of their order and the time slate is required.

Meeting Being Called of All Branches of the Slate Industry

Manufacturers, producers, distributors, dealers, roofing and other contractors using slate are planning to gather in New York at the Commodore Hotel, January 25th and 26th, for the slate industry meetings to be held under the auspices of the National Slate Association. Many of the leading concerns in the industry will hold their own sales meetings with their representatives immediately before or after the dates of the sessions devoted to the industry problems. Roofing contractors and other users of slate all over the country have responded well to the need for a co-operative promotion of the use of slate and the betterment of the conditions and relations within the industry, which Secretary Hoover urged the progressive concerns of the Industry to undertake at the first meetings last year. The results of the first nine months' effort have more than justified the Secretary's judgment.

WEATHERPROOF YOUR HOUSE—PREVENT UNNECESSARY LOSS OF HEAT—SAVE COAL

(From the Division of Building and Housing, U. S. Department of Commerce)

The saving of fuel is not seriously considered in the building of most houses. Many are shabbily built, and permit too much cold air to enter the house. Only a few years ago fuel was cheap and few bothered about saving it. While it is true that most attention should be given to the proper building of new houses, much can be done to prevent the loss of heat in poorly built and run-down houses. To save heat now not only helps to meet the present coal shortage, but it will teach those who plan to build new houses the value of weatherproofing and good construction. Our own comfort and that of our neighbors demands that we obtain the most heat from our coal without waste and that we try to reduce our requirements as much as possible.

All houses should be well ventilated, but this does not mean that unregulated drafts of cold air should sweep through the house at all times. It should also be remembered that in cold weather the warm air is continually escaping and as it passes through holes and cracks in the walls it is at once replaced by the cold out-of-doors air.

Cracks around the windows and doors, broken window panes, and unprotected heating pipes indicate that fuel is being wasted. If one family wastes fuel during the coal shortage, another may suffer for there is not enough coal to supply all with their usual amounts this winter.

The first duty of every one is to see what savings can be effected. Many suggestions appear from time to time as to how to save coal; some are excellent and can be followed easily and at little expense; while others may involve an expenditure which cannot be met. However, broken window panes should be replaced and the worst cracks around windows and doors closed up wherever possible, for this cost is less than the cost of the extra coal that will otherwise be burned. Inability to pay for expensive improvements is no excuse for not making those which can be paid for out of the saving of fuel within the next year or two.

(Continued on page 754)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church, Twenty-third and McKean streets, Philadelphia, $75,000. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Edmund's Roman Catholic Church, on premises. Stone, slate roof, electric lighting. Plans completed. Architect will take bids in one week.

Residence and Garage, Sedgwick street and Lincoln Drive. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, B. H. Bucksbaum, 723 Walnut street, Philadelphia. Stone, hollow tile and plaster, 2½ stories, 21½x58 feet, wing 32x20 feet, garage, 1 story, 20x22 feet, slate roof, hardwood floors, hot water heating, electric lighting. Plans in progress. Architects will take bids in ten days.

Garage, Office and Store, Eighteenth and Jackson streets, Philadelphia. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, Frank Nardy, 3840 Spring Garden street, Philadelphia. Brick, steel, 2 stories and basement, 138x100 feet, concrete roof, fireproof floors, steam heat, electric light, tile work, metal lath, freight elevators, roof ventilators, rolled steel sash and skylights, fire doors. Plans in progress. Owner will build.

Residence (alts. and add.), Boyer and Haines streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, S. Emlen, Jr., Haines and Chew streets, Philadelphia. Stone, 3 stories, general alterations and additions. Plans completed.

Manufacturing Building and Office Building, Northwest Corner Fourth and Arch streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Ketterlinus Lithographic Co., on premises. Brick, steel, terra cotta, cut stone and reinforced concrete, 8 stories and basement, 55¾x140 feet, slag roof, cement and maple floors, roof ventilators, dampproofing, iron work, iron stairs, floor hardener, bond, fire doors, copper skylights, rolled steel sash, tile and marble work, demolition (heating, electric work, sprinklers and elevators reserved). Architects will take new bids after first of the year.

Disston Recreation Centre, Longshore and Dittman streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Board of Recreation, Bureau of Public Welfare, 595 City Hall, Philadelphia. Excavation, surfacing, painting, setting of wall, concrete platform. Owners will be ready for bids in a few days.

Warehouse and Store (add.), Fifth street below South Street, and 506 South street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, P. Miller, on premises. Brick, 3 stories, 18x45 feet (connecting two buildings), slag roof, pine floors, cement work, structural steel, metal ceilings, plate glass, flush bulks, hot water heating, electric lighting, tile and marble work. Owner will be ready for general bids in one week.

Apartment and Store Building (alts. and add.), Northeast Corner Eleventh and Lehigh avenue, Philadelphia. Architect, William H. Wooters, 816 West Alleghen avenue, Philadelphia. Owner, name withheld. Brick and stone, (5) apartment, 3 stories, 65x160 feet, (4) stores, 1 story, 16x50 feet, slag roof, pine and mineral floors, metal lath, mill work, bond, brick, fire tower, tile work, electric lighting, hot water heating, excavation. Architect will be ready for bids in a few days.

Sales and Service Building, York road and City Line, Philadelphia. Architect, Charles W. Gilmore, Fuller Building, Philadelphia. Owners, Margerum Motor Co., care of architect. Reinforced concrete and steel, 2 stories, 155x60 feet, slag roof, cement floors, electric lighting. Architect will take bids in a few days.

Store Building (alts.), 822-24 North Broad street, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, Mone Isaacs, The Marlyn, Philadelphia. New bulks, plate glass, carpentry, mill work. Architect and owner are taking sub-bids.

Stores and Apartments, Nineteenth and Ludlow streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick, stone, steel and concrete. Architect will be ready for bids in a few days.

Garage, Twentieth and Brandywine streets, Philadelphia. Architect, private plans. Owners, Smith-Hardican Co., 1606 Cherry street, Philadelphia. Brick and steel, 4 stories, 80x65 feet, slag roof, cement and pine floors, steam heat, electric lighting. Owners are taking sub-bids.

Professional Offices and Apartments, 1813 Spruce street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Dr. Harry Lowenburg, 2011 Chestnut street, Philadelphia. Brick, 18x104 feet ,slag roof, composition and hardwood floors, metal lath, hot water heat, electric light, tile and marble work, hollow metal sash, fire doors. Owner is taking bids.

Factory Building, Thirty-second and Turner streets, Philadelphia. Architect, Leroy B. Rothschild, 1225 Sansom street, Philadelphia. Owner, Charles A. Kahn, Morris Building, Philadelphia. Reinforced concrete, brick and steel, 3 stories, 214x137 feet x 165 feet irregular, slag roof, cement floors, metal lath, dampproofing, terra cotta, iron work, tin-covered doors, hollow metal sash and skylights, demolition (heating, plumbing, electric work and elevators reserved). Owners are taking subbids and will build.

Lodge and Office Building, Southeast Corner Nineteenth and Addison streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Knights of Pythias, G. B. G. Collier, secretary of Building Committee, 415 South Nineteenth street, Philadelphia. Brick (concrete and steel or terra cotta fireproofing), 4 stories and basement, 50x150 feet, slag roof, concrete or terra cotta floors, pine floors, metal lath, wire lath, slate treads, ornamental iron work, tin-covered doors, vapor heating, electric lighting, will contain banquet room, auditorium, professional offices, lodge rooms (buff rough texture brick). Architects ready for bids.

Laboratory, Nineteenth and Cherry streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Franklin Institute, 15 South Seventh street, Philadelphia. Brick, reinforced concrete and cut stone, 4 stories, loft and basement, 57x110 feet, slag roof, cement and pine floors, metal lath, elevators, waterproofing, bond, demolition, steam heating, electric lighting, tile and marble work, rolled steel skylights. New bids will be taken in 1923.



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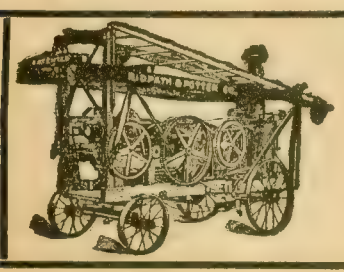
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Store Building, 231-33 North Twelfth street, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owner, Oscar H. Guentheer, 121 South Fifty-first street, Philadelphia. Brick, cut stone, steel and concrete, 2 stories, 36x93 feet, slag roof, hardwood and pine floors, plate glass, iron work, metal bulks, hot water heating, electric lighting, tile work. Owner is taking sub-bids.

School, Sixty-eighth and Lansdowne avenue, Philadelphia. Architect, Paul Monaghan, 1208 Chestnut street, Philadelphia. Owners, St. Callista's Roman Catholic Church, Rev. D. S. Coonihan, premises. Reinforced concrete, brick and steel, 3 stories, 144x62 feet, slag roof, maple floors, metal lath and window guards, iron work, bond, electric light. Architect taking bids due November 27th.

Ice Storage Building, Seventeenth and Washington avenue, Philadelphia. Architect, private plans. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick and steel, 1 story, 125x150 feet, slag roof, cement floors, rolled steel sash. Owners taking bids due December 1st.

Residence and Garage, Forty-seventh and Pine streets, Philadelphia. Architect, J. L. Connaroe, 22 5South Sydenham street, Philadelphia. Owner, name withheld. Brick and steel, 2½ stories, 57x33 feet, slate roof, composition, pine and oak floors, metal lath, sheet rock, hot water heat, electric light, tile work. Architect taking bids due November 24th.

Store (alts.), 2606 Kensington avenue, Philadelphia. Architect, R. R. Neely, 2126 Pine street, Philadelphia. Owner, Joseph Dissik, 2610 Kensington avenue, Philadelphia. Brick, 1 story, 12x16 feet, slag roof, raising floor. Owner taking bids.

Disston Playground, Longshore and Dittman streets, Tacony. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Excavation, grading, surfacing and pointing wall. Owners taking bids due November 27th at noon.

Building for Tubercular Women, Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, 584 City Hall, Philadelphia. Lowest bidders: John B. Kelly, 2313 Walnut street, Philadelphia, $246,987, $25, $3.50; Barnes & McLaughlin, 17 South Seventeenth street, $2449,000, $22, $2.00. Electric work, Electro Const. Co., Commercial Trust Building, $14,300. Plumbing, N. Connolly & Co., 1404 North Eighteenth street, $13,900. Heating, L. J. Somers & Son, 2436 Brown street, Philadelphia, $20,546.

Recreation Centre, Twenty-seventh and Clearfield streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, City Hall. Lowest bidders: Carter Paving Co., 641 North Eighteenth street, $9,098, alternate $8,092; Elkins Paving Co., 529 Morris street, Philadelphia, $9,116.

Recreation Centre, Forty-seventh and Aspen streets, Philadelphia. Architect ,John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, City Hall. Lowest bidders: C. A. Conan (A. J.), 133 North Vodges street, $21,978, $20,617; Beam Caven Co., 605 Market street, $22,217, $24,800.

Garage and Office, Northeast Corner Mt. Airy and Sprague streets, $10,000. Architect, private plans. Owner, P. T. Gallagher, on premises. Brick, 1 story, 56x87 feet, and 2 stories, 14x28 feet, slag roof, cement and pine floors, electric light. Owner will build.

Residences (10), East side Fifth street, North of Wyoming, $5,000 each. Architect, private plans. Owner, B. Zorochoff, 3045 Weikel street, Philadelphia. Brick, 2 stories, 20x65 feet and 16x32 feet, 12x33 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

Garage, 812-24 East Thompson street, Philadelphia, $6,500. Architect, private plans. Owner, M. J. O'Connor, 2310 Cumberland street, Philadelphia. Brick, 1 story, 102x17 feet, slag roof, electric light, cement floors. Owner will build.

Residences (11), 6109-29 West Walker street, Philadelphia, $4,500 each. Owner, William K. De Victor, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 15x45 feet, (10) 15x32 feet, 12x13 feet, slag roof, hot water heat, electric light. Owner will build.

Residences (2), West side Glenlock, North of Magee street, $4,000. Architect, private plans. Owner, H. R. Whittaker, Torresdale avenue and Tulip street. Brick, 2 stories, 16x39 feet, slag roof, pine floors, electric work. Owner will build.

Residences (alts.) (4), 731-33-37-39 North Forty-second street, $4,000. Architect, private plans. Owner, Alex. P. Lucker, 5136 Parkside avenue, Philadelphia. General interior alterations. Owner will build.

Residences (2), Keystone street, North of Comly street, $3,800. Owner, O. H. Thompson, 6608 Marsden street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, pipeless heater, electric work. Owner will build.

Residences (2), 3628 Gaull street and 3027 Chatham street, $3,500 each. Architect, private plans. Owner, Frank M. Faulkner, 6709 Frankford avenue, Philadelphia. Brick, 2 stories, 14x28 feet, 12x12 feet, slag roof, pine floors. Owner will build.

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Shop, 2100-02 Cemetery Lane, Philadelphia, $2,000. Architect, private plans. Owner, Joseph J. Brooks, 2104 Cemetery Lane, Philadelphia. Brick, 1 story, 20x45 feet, slag roof, pine floors. Owner will build.

Branch Sewers, Philadelphia. Owners, Department of Public Works, City Hall, Philadelphia. Owners taking bids due November 29th at noon. Abbottsford avenue, Wissahickon avenue to McKean street; American street, Luzerne street to Rising Sun avenue; Atlantic street, Kensington avenue to K street; Ellet street, McCallum to Greene street; McCallum street, Hortter to Lincoln avenue; Erie avenue, B to Front street; Fifty-fourth street, Lebanon avenue to Berks street; Fifty-fifth street, Warrington avenue to Springfield avenue; Jackson street, Knorr to Longshore street; McKean street, Swanson to Delaware avenue; Kingston street, F to G street; Marshall street, Bristol to Cayuga street.

Store (alts. and add.), 267 South Fifty-second street, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Albert M. Leskin, on premises. Brick and cut stone, 2 stories, 16x16 feet, slag roof, pine and oak floors, demolition, hot water heating, electric lighting, tile and marble work, bond, iron work. Architect taking bids due November 25th.

Residences and Garages (17), Florence avenue, Fifty-fourth to Fifty-fifth streets. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owners, Raider, Weiner & Pepper, 524 Fernon street, Philadelphia. Brick, 2 stories, 16x43 feet, hot water heating, slag roof, hardwood floors, electric lighting. Owners taking sub-bids.

Factory Building, Thirty-second and Turner streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Charles A. Kahn, Morris Building, Philadelphia. Reinforced concrete, brick and steel, 3 stories, 214x137x165 feet, slag roof, cement floors, metal lath, dampproofing, terra cotta, iron work, tin covered doors, hollow metal sash and skylights, demolition (heating, plumbing, electric work and elevators reserved). Wills Bill Co., 1706 Sansom street, taking sub-bids.

Storage Building, South side Huntingdon, East of Jasper, $7,500. Architect, private plans. Owners, W. H. and A. E. Margerison, on premises. Brick, 1 story, 49x77 feet, slag roof, cement floors. Owner will build.

Garage, Southwest Corner of Elmwood and Edgewood street, $14,000. Architect, private plans. Owner, Frederick Sbroglia, 1816 South Broad street, Philadelphia. Brick, 1 story ,100x150 feet, slag roof, cement floors, electric lighting. Owner will build.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Banking Room, Germantown and Roberts avenues, Philadelphia. Architects, Simons, Brittain & English, 336 Fourth avenue, New York City, and 929 Chestnut street, Philadelphia. Owners, Wayne Junction Trust Co., on premises. Brick, cut stone and steel, 3 stories, 110x40 feet, composition roof, cement and maple floors, hollow tile, metal lath and window guards, iron work, bond, kalamein doors, rolled steel sash, tile and marble work, steam heat, electric light. Contract awarded to Simons, Brittain & English, 929 Chestnut street, Philadelphia.

Office Building, 311-13 Walnut street, Philadelphia. Architect, Geo. I. Lovatt, 416 Walnut street, Philadelphia. Owners, Employers' Liability Insurance Corp., Ltd., London, Eng. Reinforced concrete, brick, cut stone, steel and limestone, 5 stories, 46x119 feet, slag roof, cement and pine floors, metal lath, safety treads, demolition, tile, marble and terrazzo work, hollow metal doors, iron work. Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

School, Third and Duncannon streets, Philadelphia. Architects, Board of Education, Nineteenth above Chestnut streets. Contract awarded to Cramp & Co., Denckla Building, $428,562. Electric, Blumenthal Kahn Elect. Co., Baltimore, Md., $16,838. Heating, McClintock Brothers, 5216 Webster street, $45,300. Plumbing, Hertsch Brothers, Columbia avenue, $20,263. Ventilating, Howlett & Co., Fourth and Columbia avenue, $1,409.

School, Ninth and Oregon avenue, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Contracts awarded to McCloskey Co., 1620 Thompson street, $406,660. Heating, Thompson Brothers, 520 Buttonwood street, $47,800. Electric, Blumenthal Kahn Electric Co., Baltimore, $9,190. Plumbing, Bulman Brothers, Fifth and Cumberland streets, $1,948. Ventilating,

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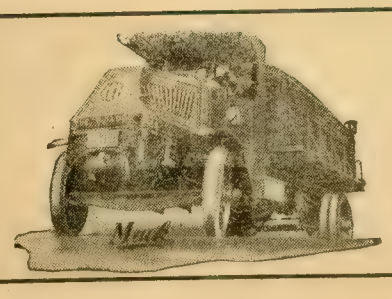
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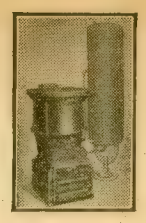
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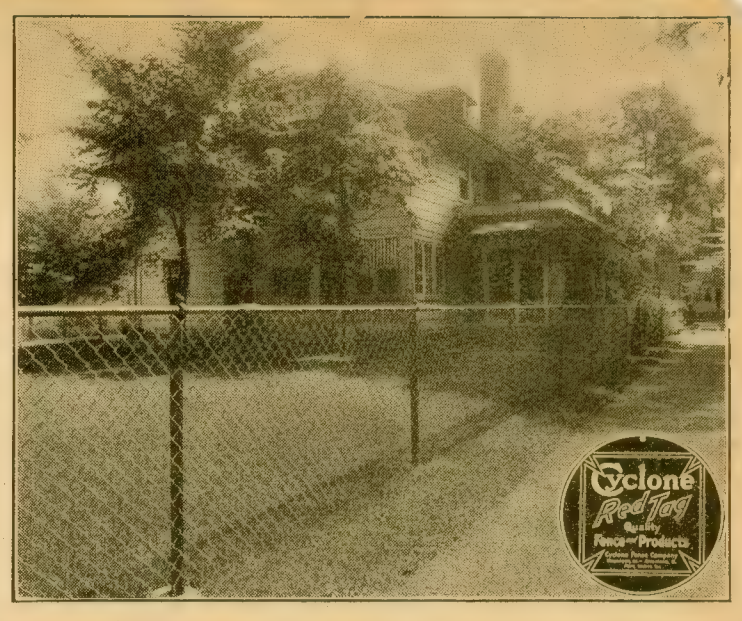
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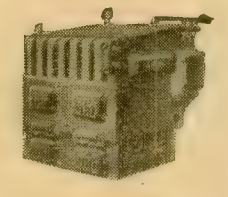
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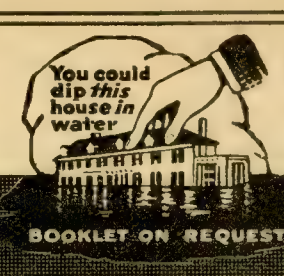
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School, Germantown and Southampton avenues, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Contract awarded to Cramp & Co., Denckla Building, $444,297. Heating, McClintock Brothers, 5216 Webster street, $45,000. Electric, Blumenthal Kahn Elect. Co., Baltimore, Md., $16,738. Plumbing, Thompson Brothers, 520 Buttonwood street, $26,100. Ventilating, Howlett Co., Fourth and Columbia avenue, $1,409.

Johnson Residence (alts.), 510 South Broad street, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall, Philadelphia. Brick and terra cotta, carpentry, mill work, composition floor, demolition, hollow metal sash and doors. Contracts awarded to: General, Gerge Dobbin, 1020 South Forty-seventh street; heating, J. Bugger, 2124 East Cumberland street, Philadelphia; plumbing, J. Bugger, 2124 East Cumberland street, Philadelphia.

Residences (alts. and add.), 2125-27-29 Cypress street, Philadelphia, $18,000. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owners, (2125-27) Mrs. Frances Spencer, (2129) Mrs. Florence J. Corbus, care of architect. Stucco, brick, steel and cut stone, 4 stories, 12x14 feet, slag roof, oak and pine floors, metal lath, plastering, plumbing, iron work, rolled steel skylights, tile work (heating, lighting and finished hardware reserved). Contract awarded to J. H. Hinkle, Twenty-fifth and Delancey streets, Philadelphia.

Ice Manufacturing Building, Duncannon and Mascher streets, Philadelphia. Architect, Leslie Weir, 41 East Forty-second street, New York City. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick, reinforced concrete and steel, 1 story, 82x100 feet, slag roof, cement and pine floors, hollow tile, waterproofing and dampproofing, iron work, floor hardener, bond, kalamein doors, cork insulation. Contract awarded to Levering & Garrigues, 552 West Twenty-third street, New York City.

Building, North side of Callowhill, between Broad and Fifteenth streets, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Philadelphia Inquirer, 1109 Market street, Philadelphia. Brick, steel, concrete and stone, 6 stories, 166x396¾ feet. Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

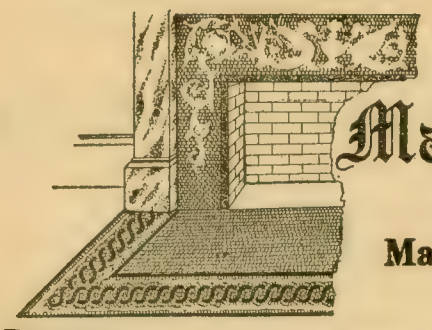
Laundry Building, Thirty-fourth and Spruce streets, Philadelphia, $20,000. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, University of Pennsylvania Hospital, on premises. Brick, concrete and steel, cut stone and terra cotta, 2 stories and basement, 34x34 feet, slag roof, cement floors, waterproofing, iron work, plumbing (heating and lighting reserved). Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Boarding Home for Working Girls (alts. and add.), Hancock above Diamond street, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Michael's, St. Edward's, and Church of the Visitation Parishes, care of architect. General alterations and additions. Contract awarded to John McShain, 1610 North street, Philadelphia.

Store (alts.), 2835-37 Germantown avenue, $3,700. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, George Eickenhofer, on premises. Brick work, maple floors, cement work, electric work, marble work, plate glass, metal cornice and grilles, flush bulks (plumbing and heating reserved). Contract awarded to Stewart Brothers, 2526 North Orkney street, Philadelphia.

Bank Building (alts.), Broad and Louden streets, Philadelphia. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Logan Bank & Trust Company, W. Harry Weller, 1338 Ruscomb street, Philadelphia. General alterations, changing residence to bank building. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Residence, 134 Rochelle avenue, Roxboro, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owner, Dr. C. E. Hibshman, 130 Rochelle avenue, Roxboro. Brick, 3 stories, 38½x21 feet, slate roof, hardwood floors, steam heating, electric lighting, tile work. Contract awarded



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ard J. Heinke, Twelfth and Norris s, Philadelphia.

esidence, 7048 Germantown avenue, Philaphia. Architect, George S. Idell, 1705 hestnut street, Philadelphia. Owner, Waler H. Jarden, on premises. Brick work, carpentry, mill work, hardware, painting, demolition, repairs to roof, plastering, tile work, iron work (heating, lighting and plumbing reserved). Contract awarded to Samuel Harting, 20 East Johnson street, Philadelphia.

Building (alts. and add.), Allison street and Baltimore avenue, $25,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, Hannah Levy, care of architect. Brick, cut stone and steel, 1 story and basement, 53x27 feet, slag roof, pine and cement floors, demolition, steam heating, electric lighting, tile work, metal lath, bond, ir work. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

Garage, Park avenue, North of Ontario street, Philadelphia, $3,000. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owners, Samaritan Hospital, Broad and Ontario streets, Philadelphia. Brick and steel, 2 stories, 22x28 feet, slate roof, cement nd pine floors, steam heating, electric lighting. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

Store (alts.), Lancaster avenue, Wallace and Preston streets, Philadelphia, $5,000. Architects, Neubauer & Supowitz, 929 Chestnut street. Owners, Benjamin J. Beerwald, on premises. New bulks, plate glass, general interior alterations. Contract awarded to Nicholas Nardi Co., 1726 Sansom street.

Sales Building (alts.), Southeast Corner Broad and Brown streets, $15,000. Architect, private plans. Owner, Frank C. Aberle, Northwest Corner A and Clearfield streets. Carpentry, mill work, plastering, painting and glazing, plate glass, metal lath, steam heat, electric work. Contract awarded to Henry P. Schneider, 3713 Old York Road.

Residence, West side Ridge avenue, South of Spring street, $6,500. Architect, private plans. Owner, Thomas Cutes, on premises. Frame, 2 stories, 24x41 feet, electric light, pine and oak floors. Contract awarded to Brown Const. Co., 105 Levering street.

Warehouse (add.), East side Stokley, South of Abbotsford, $25,000. Architect, private plans. Owners, American Insulation Co., Roberts and Stokley streets. Brick, 3 stories, 90x60 feet, slag roof, steam heat, electric light, cement floors, steel sash. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Store Room (fire repairs), 1014-16-18-20 North American street, $11,500. Architect, private plans. Owner, George Melloy, 1419 Spring Garden street, Philadelphia. Slag roof, pine floors, electric work, painting, glazing, elevator. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Warehouse and Garage, East side Wildey street, North of Montgomery, $13,500. Architect, private plans. Owner, Charles Crowley, 67 Laurel street, Philadelphiaa. Brick, 2 stories, 61x22 feet, garage, 1 story, 18x120 feet, slag roof, cement floors, electric light, steel sash. Contract awarded to A. H. Moorshead, 67 Laurel street, Philadelphia.

Residence, 334 Winona street, Philadelphia, $7,800. Architect, private plans. Owner, Henry A. Stiles, 328 Winona street, Philadelphia. Brick, 2 stories, 24x34 feet, slag roof, electric lighting, tile work, oak and pine floors, hot water heating. Contract awarded to Fred C. Hoehn, 3725 North Fifth street.

Tenement (alts.), 816 South Forty-eighth street, Philadelphia, $7,500. Architect, private plans. Owners, J. B. Roth and J. Brown, on premises. Carpentry, mill work, electric work, plastering, painting, glazing, general alterations. Contract awarded to Warren E. Biscoe, 3940 Ludlow street.

Tank and Tower, Northwest Corner Tacony and Fraley streets, $8,000. Architect, private plans. Owners, The Abrasive Company, Tacony and Fraley streets, Philadelphia. Steel. Contract awarded to Pittsburgh-Des Moines Steel Co., 50 Church street, New York.

Residence and Store (alts. and add.), Southwest Corner Union and Fairmount avenues, Philadelphia, $6,000. Architect, private plans. Owner, Joseph Fernobio, 3953 Fairmount avenue, Philadelphia. Brick, second story add., 19x20 feet, general alterations. Contract awarded to H. Brogan, 3822 Brown street, Philadelphia.

Church (alts.), Southeast Corner Thirteenth and Ludlow streets, $3,000. Architect, private plans. Owners, St. John Evangelist Church, on premises. General alterations. Contract awarded to Doyle & Co., 1517 Sansom street, Philadelphia.

Garage, Southwest Corner Evergreen and Prospect streets, $2,000. Architect, private plans. Owner, Mrs. Henry Pemberton, Southwest Corner Evergreen and Prospect streets. Stone, 1 story, 23x25 feet, slate roof, cement floors. Contract awarded to A. T. Smith, 704 McCallum street, Philadelphia.

Operation of Residences, Louden street, East of Marvine street. Owner, Sadie Lubarsky, Southeast Corner Second and McKean streets, Philadelphia. Brick, 2 stories, 15x35 feet, 12x23 feet, and 15x56 feet, slag roof, pine floors, electric light. Contract awarded to Fox Brothers, 4814 North Broad street, Philadelphia.

Store and Apartment, 2819 West Girard avenue, Philadelphia, $4,000. Architect, private plans. Owner, Kemfer P. Muench, Parrish and Ringgold streets, Philadelphia. Brick, 1 story add., 12x8 feet, general alterations. Contract awarded to Cleveland Yerger, 1337 Seventy-second avenue.

Building (alts.), 1037 North Penn street, Philadelphia, $5,000. Architect, private plans. Owners, Penn Sugar Co., on premises. General alterations. Contract awarded to O'Meara Const. Co., 228 South Warnock street.

Residence, East side Rising Sun avenue, North of Geneva street, $8,000. Architect, private plans. Owner, Robert Crawford, 3735 North Fifth street, Philadelphia. Brick, 2 stories, 28x30 feet, slag roof, electric lighting, oak and pine floors. Contract awarded to U. S. Hunsberger, 145 North Seventh street, Philadelphia.

Store and Storage (add.), 2560 Kensington avenue, $6,000. Architect, private plans. Owner, J. Levitt, 1328 Chestnut street, Philadelphia. Brick, 1 story, irregular size, slag roof, electric lighting. Contract awarded to Bader Const. Co., Colonial Trust Building.

Residences (3) (alts.), 1601-03-05 West Passyunk avenue, $5,000. Architect, private plans. Owner, William Barr, 1601 Passyunk avenue, Philadelphia. General alterations. Contract awarded to William Crecilius, Jr., 1723 Snyder avenue.

Garage, South side Courtland, East of Fifth street, $5,000. Architect, private plans. Owners, Oscar Nebel Co., Fifth and Courtland streets, Philadelphia. Brick, 1 story, 30x42 feet, slag roof, cement floors, electric work. Contract awarded to Nicetown Const. Co., Fifth and Fishers avenue.

Tenement (alts.), 329 South Fifth street, Philadelphia, $4,000. Architect, private plans. Owner, J. J. Abramson, 1342 South Seventh street, Philadelphia. General alterations. Contract awarded to M. Gershen, 2408 North Myrtlewood street.

Building (alts. and add.), Northeast Corner Chadwick and Oregon, $4,000. Architect, private plans. Owner, Annie V. Martin, 2528 South Broad street, Philadelphia. Brick, 2 stories, 16x14 feet, slag roof, pine floors, electric light. Contract awarded to Nick Ricci,

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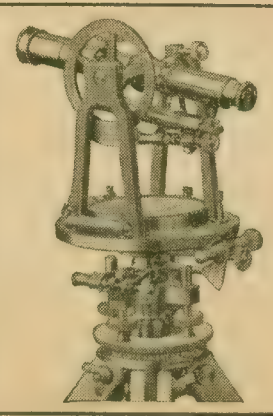
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Store and Office, 311 South Broad street, $100,000. Owner, F. W. Allen, 225 South Broad street, Philadelphia. Brick, 3 stories, 43x150 feet, slag roof, electric light, steam heat, tile work. Contract awarded to Sol Cohen, 1631 South Fifth street, Philadelphia.

Residence (alts.) and Garage, Southeast Corner Twenty-second and Christian streets, Philadelphia, $4,950. Architect, private plans. Owner, B. Landau, Southwest Corner Sixteenth and Catharine streets. Brick, 1 story, 8x16 feet, slag roof, cement floors, general alterations to residence. Contract awarded to G. E. Hawk, 1628 North Twelfth street.

Shop, 124 West Fairmount avenue, Philadelphia, $4,000. Architect, private plans. Owner, A. Gabler, Northwest Corner Beach and Fairmount avenue. Brick, 1 story, 18x68 feet, 18x32 feet, slag roof, pine floors, electric lighting. Contract awarded to Walter Einwechter, 314 Richmond street.

Building (alts. and add.), 506 South street, Philadelphia, $3,500. Architect, private plans. Owners, P. Miller Furniture Co., on premises. Brick, 1 story, 6x16 feet, 3 stories, 16x38 feet, slag roof, pine floors, electric lighting. Contract awarded to Philip Spivak, 2636 South Marshall street.

Shed, Nixon street, North of Fountain street, Philadelphia, $3,500. Architect, private plans. Owners, Philadelphia Paper Mfg. Co., on premises. Iron and frame, 1 story, 25x113 feet. Contract awarded to J. L. Fawley, 1615 Spruce street, Philadelphia.

Building (alts. and add.), 1302 North Third street, $2,400. Architect, private plans. Owner, John Reich, on premises. Brick, 1 story, 16x32 feet, slag roof, pine floors. Contract awarded to John M. Holpfl, 2016 North Fifth street.

Rooming House (add.), 400 South Ninth street, Philadelphia, $3,200. Architect, private plnas. Owner, Charles Fleck, Twelfth and Bainbridge streets, Philadelphia. Brick, second story add., 16x20 feet, slag roof, pine floors. Contract awarded to A. P. Lucker, 5136 Parkside avenue, Philadelphia.

Residence and Store (alts. and add.), Northwest Corner Thirty-second and Berks, $9,000. Architect, private plans. Owner, Ben Horowitz, 714 Porter street, Philadelphia. Brick, 1 story, 7x50 feet, 24x3 feet, slag roof, oak and pine floors. Contract awarded to P. Litman, 2548 South Third street, Philadelphia.

Residence and Garage, Oak road, Germantown, Philadelphia. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owner, George O. Stephenson, 3222 West Penn street, Germantown, Philadelphia. Stone, 2½ stories, 58x31 feet and 22x20 feet, slate roof, oak, pine and cement floors, hot water heating, electric lighting, tile work, iron work. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

Business Building, 232-34 North Second street, Philadelphia, $4,000. Architect, private plans. Owners, D. Seidel Estate, Third and Green streets, Philadelphia. General alterations. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Tenement (add.), 253 South Ninth street, Philadelphia, $2,500. Architect, plans. Owner, Joseph Cohen, 717 V street, Philadelphia. Brick, fourth s add., 8x10 feet, slag roof, pine floors. C tract awarded to N. Rizensky, 520 Dickinso street.

Garages (4) and Stores (1), Poplar street and Meeting House Lane, $30,000. Architect, private plans. Owner, A. Steinfeld, 139 South Fifteenth street, Philadelphia. Brick 1 story, 37x50 feet, 37x96 feet, 19x132 feet, 76x250 feet, store, 1 story, 19x18 feet, slag roof, pine and cement floors, electric lighting. Contract awarded to Louis Swerdloff, 228 South Fifty-ninth street.

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PENNSYLVANIA Construction News

Residence and Garage, Bryn Mawr, Pa., $15,000. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, Joseph Carson, 1524 Chestnut street, Philadelphia. Stone, 2½ stories, slate roof, electric lighting. Plans in progress.

Residence and Garage, Bryn Mawr, Pa., $15,000. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, Miss Sarah Whelan Smith, care of J. Carson, 1524 Chestnut street. Stone, 2½ stories. Plans in progress.

Residences (2), Wallingsford, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 30x80 feet. Preliminary plans in progress.

Residence (alts. and add.), Bristol, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Lewis C. Spring, Bristol, Pa. Frame and stucco, 2½ stories, general renovation. Owner is building.

Church, Telford, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owners, Grace Evangelical Church, Telford, Pa. Stone, 1 story, 70x50 feet, slate roof, pine floors, hot water heating, electric lighting, tile work. Plans in progress. Architect will be ready for bids in three weeks.

Residence, Lansdale, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, H. D. Sell, Lansdale, Pa. Brick, 2½ stories, 30x32 feet, slate roof, pine floors, hot water heating, electric lighting. Plans in progress. Owner will take bids.

Bungalows (2), Columbia avenue, Lansdale, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Professor H. J. Loman, 5936 Carpenter street, Philadelphia. Brick and stucco, 1½ stories, 52x52 feet, asbestos roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

Residences (6), Wynnefield, Pa. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, name withheld. Stone and stucco, 3 stories. Preliminary plans in progress. Too early for details.

Residence, Drexel Hill, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, D. J. Hickey, Drexel Hill, Pa. Frame and stucco, 2 stories, 31x25 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Owner is building.

Residence, Penn Side, Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, S. Weiss, Penn Side, Reading, Pa. Stone, 2 stories, 28x40 feet, Spanish tile roof, electric light, tile terrace. Owner will build.

Twin Residence and Garage, Pottsville, Pa. Architects, Ritcher & Eiler, Sixth and Court streets. Owners, Lilienthal & Marks, Pottsville, Pa. Hollow tile and stucco, 2½ stories, 38x38 feet, garage, 1 story, 21x19 feet, slate roof, hardwood and concrete floors, vapor vacuum heat, electric light, tile work. Owners taking bids due November 27th.

Stores (5) and Garage, Third and Penn streets, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owners, Flicker Brothers, on premises. Brick, 1 story, 90x90 feet, composition roof, concrete floors, vacuum heat, electric light, rolled steel skylights, roof ventilators, metal ceilings. Owners taking bids due as soon as possible.

Auto Sales Room and Apartment (alts. and add.), 117 S. Fifth st., Reading. Architect, Earl Hickman, 119 S. Fifth street, Reading, Pa. Owner, A. W. Golden, 129 South Fifth street, Reading, Pa. Brick, 2½ stories, 30x70 feet, tin roof, hardwood floors, vapor heat, electric light. Owner ready for sub-bids.

Garage, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Calvin A. Unger, Liberty Garage, Phoenixville, Pa. Brick, 2 stories, 53x126 feet, stone foundations, slag roof, concrete and tile floors, steam heat, electric light, (1) elevator, metal sash and skylights, rolling steel and fire doors, metal fixtures. Plans in progress.

Church (alts.), Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, name withheld. General interior alterations, tile work. Sketches in progress.

Club House, 126-28 North Penn street, Reading, Pa. Architect, E. Hickman, 119 South

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Fifth street, Philadelphia. Owners, Catholic Literary and Social Union, care of Mr. Gantert, on premises. Brick, 1 and 3 stories, 40x115 feet, composition roof, hardwood floors, vapor heat, electric light, skylights, roof ventilators, waterproofing, dampproofing. Plans in progress.

High School, Annville, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owners, Annville School Board, Mr. Wagner, secretary, Annville. Fireproof, 2 stories, 160x95 feet, hardwood floors (heating, electric lighting reserved), rolled steel skylights, roof ventilators. Will be ready for bids in two weeks.

Garage, Haverford, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Merion Cricket Club, Haverford, Pa. Stone, concrete and steel, 1 story, 60x125 feet, macite roof, cement floors, roof ventilators, hot water heating, electric lighting, rolled steel sash and skylights, fire doors. Architects will be ready for bids in a few days.

Residence, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, L. L. Rice, care of architect. Brick, 2½ stories, 32x36 feet, slate roof, pine floors, electric light, tile work. Sketches in progress.

Church and Sunday School (add.), New Cumberland, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, United Brethren Church, of New Cumberland, care of architect. Brick, 1 story and basement, various sizes, slate roof, hardwood floors, electric lighting. Sketches in progress.

Residence, North Front street, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, William Hicks, 1937 North Third street, Harrisburg, Pa. Sketches in progress.

Residence, North Second street, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, Mr. Hill, Dauphin Tire Service Co., 211 North Second street, Harrisburg, Pa. Sketches in progress.

Bank and Office, Red Lion, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, First National Bank, C. S. La Motte, president, York, Pa. Granite and brick, 1 and 4 stories. Sketches in progress.

Residence, Riverside, Harrisburg, Pa., $30,000. Architects, Laurie-Green & Co., Commonwealth Building, Harrisburg. Owner, Patrick Russ, Front and Reel streets, Harrisburg, Pa. Brick, 2½ stories. Preliminary plans in progress.

Residence and Garage, Indian Springs, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, C. C. James, Hagerstown, Md. Brick, 2 stories, 35x26 feet, hardwood floors, electric light. Plans in progress.

Apartments (6), Third above North street, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, Albert Simms, Harrisburg, Pa. Brick, 3 stories, 35x60 feet, composition roof, hardwood floors, tile work, electric light. Plans in progress.

Warehouse, Mason and Beaver streets, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Bon Ton Department Store, S. Grumbacher & Son, York, Pa. Brick, reinforced concrete, 2 stories, 32x80 feet, slag roof, wood and concrete floors, electric light, waterproofing and dampproofing. Architect will be ready for bids in a few days.

Bank and Apartment (alts.), Gallitzin, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owners, Citizens' Deposit Bank, Gallitsin, Pa. General interior alterations, partitions, tile and pine floors, electric light, tile and marble work, metal window guards, bank fixtures, vault, ornamental iron work. Architects taking bids.

Apartments (15), 14-16-18 North Sixth street, Harrisburg, Pa. Architect, R. R. Markley, 9 North Market Square, Harrisburg, Pa. Owner, A. Marcus, 1211 North Sixth street, Harrisburg, Pa. Brick, 3 stories, 42x155 feet, composition roof, hardwood floors, steam heat, electric light, tile work, metal lath. Owner will build.

Residence, College Park, Frederick, Md., $15,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, E. M. McCordell, Frederick, Md. Hollow tile and stucco, 2 stories, 35x25 feet, 21x10 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Owner will build.

Pennsylvania Contracts Awarded

Building No. 6 (add.), Bridgeport, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, James Lees & Sons, Bridgeport, Pa. Reinforced concrete, brick, steel and cut stone, 5 stories, 64x43 feet, slag roof, composition and cement floors, safety treads, roof ventilators, floor hardener, fire and kalamein doors, rolled steel sash and skylights, demolition (heating, lighting, plumbing and ventilating reserved). Contract awarded to Bowden Const. Co., 1935 Chestnut street, Philadelphia.

Residence, East Lansdowne, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Mrs. H. Johnson, care of architect. Frame and stucco, 2½ stories, 31x25 feet, shingle roof, hardwood floors, hot water heating, electric lighting. Contract awarded to D. J. Hickey, Drexel Hill, Pa.

Squash Court, Haverford, Pa. Architects, Furness, Evans Co., 315 South Fifteenth street, Philadelphia. Owners, Merion Cricket Club, Haverford, Pa. Frame, 1 story, 25x45 feet, slag roof, electric lighting. Contract awarded to H. P. Wolfe & Co., Bryn Mawr, Pa.

Bridge (reconstruction), Lemoyne, Pa. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets, Philadelphia. Steel and concrete, 40 feet wide, 16 foot sidewalk, over 4 tracks. Contract awarded to T. A. Flink, Lemoyne, Pa.

Rectory, York, Pa. Architects, E. Leber and J. H. Hatton, associate, Hay Building, York, Pa. Owners, St. Patrick's Roman Catholic Church, care of Rev. James McGrath, York, Pa. Brick, 3 stories, 33x60 feet, copper tile roof, hardwood floors, vapor heat, electric light, tile and marble work. Contract awarded to George Gilbert, York, Pa.

Garage, Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, John Rolinsky, Laurel and Pearl streets, Reading, Pa. Brick, 1 story, 18x42 feet, concrete foundation, asbestos shingle roof, cement floors, electric light, Armoboard panels. Contract awarded to W. Franklin Yohn, 423 South Fifth street, Reading.

New Jersey Construction News

Bank Building, Woodstown, N. J. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owners, Woodstown National Bank, William Richman, president, West avenue, Woodstown, N. J. Brick, 1 and 2 stories. Preliminary plans in progress. Too early for details.

Animal Husbandry Building, New Brunswick, N. J., $150,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, Dr. Lipman, Agricultural College, New Brunswick, N. J. Fireproof, 2½ stories, 83½x105 feet, slate roof, hardwood and concrete floors, steam heat, electric light, hollow tile, metal lath, (2) elevators, rolled steel sash and skylights, fire doors, roof ventilators, waterproof-

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ing and dampproofing, floor hardener, ornamental iron work. Plans in progress. Ready for bids in three weeks.

Masonic Temple, Hartford and Ventnor avenues, Atlantic City. Architect, Charles H. Adams, Guarantee Trust Building, Atlantic City. Owners, Masonic Temple Association, William Fort, chairman Building Committee, 42 South Pennsylvania avenue, Atlantic City, N. J. Limestone, 4 stories. Architect selected.

Residences (3 two-family), Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Yarmov & Shenkman, Atlantic City, N. J. Brick, 2 stories, 36x48 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Sketches in progress.

Apartment (alts. and add.), New York avenue, near Beach. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, care of architect. Brick, tile, 2-story add., 24x50 feet, slag roof, pine floors, electric lighting. Plans in progress.

Garage, Atlantic City, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick, concrete block on wood piling, 50x100 feet, slag and steel tressed roof, concrete floors, electric light, rolled steel sash, floor hardener. Plans in progress.

Cottage, Ventnor, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, name withheld. Frame, 2 stories, 6x39 feet, slate roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Store and Apartment, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, Nathan Levin, care of architect. Brick, 4 stories, 67x79 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, rolled steel sash, waterproofing. Revised plans in progress.

Residence, Ventnor, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Hon. Walter E. Edge, 170 South Pennsylvania avenue, Atlantic City. Brick, frame, 2½ stories and basement, 43x102 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile and marble work, elevators. Architect will take bids in one week.

Two-Family Residences (6), Vermont and Drexel avenues, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, J. L. Shapiro, Rhode Island and Atlantic avenues. Brick, 2 stories, 100x57 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner is ready for bids.

Church, Ventnor avenue, Ventnor, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owners, Methodist Episcopal Church, Dr. Martin, North Trenton avenue, Ventnor, N. J. Hollow tile and brick, 1 story and basement, 75x90 feet, tile roof, hardwood floors, steam heat, electric light, tile work. Architect will take bids in two weeks.

Residence, Princeton, N. J., $20,000. Architects, Dreher, Churchman &Paul, Otis Building, Philadelphia. Owner, W. Meredith Dixon, care of architect. Frame, 2 stories, 40x85 feet, shingle roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Owner will take bids.

Junior High School, Camden, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Board of Education, Camden, N. J. Brick, stone, concrete and steel. Plans about completed. Will be ready for bids in two weeks.

Residence, Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, M. Lawton Steedle, Riverton, N. J. Hollow tile and plaster, 2½ stories, 25x50 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Owners will take bids at once.

Residence, 51 Spring street, Trenton, N. J., $7,500. Architect, private plans Owner, Nathan Milgaten, 550 South Warren street, Trenton, N. J. Brick, 2½ stories, 22x74 feet, slate roof, hardwood floors, electric lighting. Owner will build.

Hotel, Ocean City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Ocean Front Hotel Corp., Eleventh and Boardwalk, Ocean City, N. J. Limestone, granite, brick, cut stone, reinforced concrete and steel, 8 stories, 175x140 feet, and 2 stories, 160x100 feet, tile and slag roof, concrete and oak floors, hollow tile, metal lath, waterproofing, terra cotta, iron work, bond, hollow metal doors ,tile, marble and terrazzo work (heating, electric work, plumbing, foundations and elevators reserved). Architect taking bids due November 27th.

Bridge, Cape May County, N. J. Engineer, R. Fendall Smith, County Engineer, Marmora, N. J. Owners, State Highway Commission, Trenton, N. J. Bridge across Grassy Sound Channel, including Strauss Bascule Draw Span, Cresoted Timber Trestle and Abutments, with Graveled Approaches on Sand Fill. Board of Chosen Freeholders of County of Cape May, N. J., taking bids due December 5th. Certified check for 10 per cent. of amount required.

Bridge over Sunset Lake, Freehold, N. J. Engineer, George K. Allen, Jr., 60 Broad street, Red Bank, N. J. Owners, Board of Chosen Freeholders, County of Monmouth, Freehold, N. J. Reconstruction of bridge, 3 forty-foot spans and 30-foot roadway. Owners taking bids due December 6th at 11 A. M. Certified check for 10 per cent. of amount bid required.

New Jersey Contracts Awarded

School, Trenton, N. J., $448,000. Architects, associate, William Slack & Son, St. Regis Theatre Building, Trenton, N. J., and Ernest Sibley, Palisade, N. J. Owners, Board of Education, County of Mercer, Trenton, N. J. Brick and steel, 2 stories and basement, 130x24 feet and 156x55 feet, 124x50 feet and 53x99 feet, slag roof, cement and maple floors, metal lath, dumb waiter, roof ventilators, dampproofing, iron work and stairs, floor hardener, bond, hollow metal doors, rolled steel skylights, tile, marble and terrazzo work (heating, etc., separate bids). Contract awarded to Karno-Smith Co., Broad Street Bank Building, Trenton, N. J.

Iroquois Hotel (add.), South Carolina avenue, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, R. L. Ludy, on premises. Frame, 5 story add., slag roof, pine floors, electric light. Contract awarded to Charles Thompson, Pleasantville, N. J.

Residence, Merchantville, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owner, Mrs. M. C. Bottomley, care of architect. Brick, 2 stories, 38x26 feet, 20x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Fred Lange, Audubon, N. J.

Club, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Tenitville Athletic Club, care of J. Fisher, president, Trenton, N. J. Brick, 3 stories, 25x100 feet, slag roof, hardwood floors, steam heating, electric lighting, tile and marble work. Contract awarded to John Schaeffer, Trenton, N. J.

Store and Apartment (alts. and add.), 332 Broad street, Trenton. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owner, H. Silverstein, 332 South Broad street, Trenton, N. J. Brick, 2 stories and basement, 20x86 feet, slag roof, hardwood and concrete floors, electric lighting, metal ceilings. Contract awarded to Putcher & Garr, Trenton, N. J.

Residence (alts. and add.), Somers Point, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Mrs. R. Craighead, Craig Hall, Atlantic City, N. J. Frame, 2½ stories, 40x160 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded to Charles Corson, Linwood, N. J.

Store and Residences (3), Paul avenue, Trenton, N. J., $12,000. Architect, private plans. Owner, Joseph Lupo, Trenton, N. J. Brick, 2 stories, 28x41 feet, slag roof, pine floors, electric work. Contract awarded to Stephen & Dilkney, Trenton, N. J.

Miscellaneous Construction News

Residence, Washington, D. C. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Henry W. Ruoff, care of architect. Stone, 2 stories, 34x61 feet. Preliminary plans in progress.

(Continued from page 744)

How much coal can be saved? If every family would save one ton of coal it would mean a saving of millions of dollars. During the present coal shortage the coal thus saved might be distributed among those who otherwise would be unable to obtain sufficient fuel, and perhaps keep many from suffering.

Millions of tons of coal can be saved this winter by the making of slight repairs on houses and the exercising of a little more care in burning coal.

Inspect your house. Some home owners have a reliable repair man look over their houses in the same way that they have the dentist look over their teeth. The owner can then decide what repairs can be undertaken. Much of the work he can do himself. The work he is able to pay for now can be done immediately.

Where and what to look for. In making an inspection the owner should examine the windows, doors, transoms and floors. He should also inspect the attic and the basement, examine the damper in the fireplace, and cracks under the baseboards. It might be well for him to start with the windows:

Windows. Much cold air comes in around the windows or through them. Windows are often poorly fitted into the openings. Occasionally it is possible to see between the brick wall and the window casing. Window sash are rarely fitted snugly, and cold air enters freely around the sash. It is not uncommon to find a wide crack between the upper and lower sash. Such cracks can sometimes be closed by means of the sash lock. The use of weatherstripping will take

care of most of the cracks around a window, and the saving of coal will be well worth while in a large number of houses.

It is well to go over all windows to see that putty is in place around the panes. A poor quality of putty is used in some of our houses and where it has fallen off air enters around the glass.

That broken window pane in the basement should be replaced as promptly as if it were in the living room. Broken window panes in a basement where heating and plumbing pipes are exposed waste fuel. The attic windows should also be examined.

In cold climates double or storm doors are very good to keep the house from getting cold. The air space between the two windows prevents the rapid passing of heat to the outside. Storm windows might be put over the windows on the side of the house facing the prevailing wind, even though they could not be afforded for all windows.

Doors. Doors are often poorly fitted and air passes freely both above and below them. The crack below the door is often so large that cold air sweeps across the floor, keeping the room cold. A strip of cloth or felt nailed to the floor or to the door will keep out much of the cold. Hinges are not always well fitted into the door and frame, allowing much cold air to enter the house. This can be remedied by resetting the hinges. Transoms over doors should be examined, for they are not always snug fitting.

Storm doors involve some expense, but in many cases it is profitable to install one on the windward side of the house. It will prevent the inrush of cold air. The storm door as well as the storm window is used chiefly in the colder climate.

Floors and baseboards. While double floors are becoming more common there are many houses in which a single floor is nailed direct to the joists. If tongue and groove flooring is used there is no draft, but there are floors with cracks between the boards. If there is no basement under this part of the house cold air will enter. Even though the floor be good, it does not give as much protection as a double floor.

In houses where there is no firestopping between the studs of the wall, cold air can pass freely from the attic to the basement. In such houses, if the plaster goes down only a little below the top of the baseboard, much air enters the rooms under the baseboards if they do not fit closely. Such cracks should be closed.

Basements. In some houses the warm air can pass from the basement upward betwen the studs. If such is the case it is advisable to close up the openings between the joists with old brick, or some other material. Basement doors and windows should be examined and made as tight as those in the rest of the house. Cold air entering the basement cools the heating pipes and furnace and the floor above.

The covering of the furnace and of steam and hot water heating pipes, especially in the basement, is advisable. Although insulation may be expensive, it is well to consider the cost of fuel and saving that can be effected.

Attics. Attics are usually cold and give plenty of chance for cold air to enter the house and for warm air to escape. Sometimes shingles are nailed direct to cleats and the out-door air enters between the cleats at the ends. Again free passage-ways for air in the walls, between the attic and the basement, keep this cold air in circulation. If the openings between the cleat ends are closed cold air may be kept out. The windows in the attic should receive as much attention as those in other parts of the house. Dead air in an attic keeps the lower stories warmer, while the direct opposite is the case with currents of air. The currents must be avoided and this is accomplished if the house is properly firestopped.

Personal attention. There are things that can be done to keep the house comfortable that do not cost money, but require some time and attention.

The locking of windows when closed, the drawing down of shades, the turning off of heat in an unused room or at night when windows are open, periodical care of heating equipment, all require a little time and thought, but will save heat. This means the saving of fuel for the nation, and lessened household expense. Special attention should be given to ventilation.

Thermometers are better gauges of heat than are the various members of a family, each with his own idea of warmth. Sixty-eight to seventy degrees is the normal healthful temperature for rooms in which people live.

Opening windows at night. To throw bed room windows wide open on cold nights and leave the heat turned on results in much waste of coal. It is often best to turn off the heat. Good ventilation is possible without large openings. In the rest of the house it often is advisable not only to close windows, but also blinds and shades. Merely pulling down shades makes a material difference in the temperature of a room.

Chimneys, stove pipes, fireplaces. Chimneys and stove pipes should be examined and cleaned out whenever necessary. Chimneys and stove pipes are intended to serve as flues and the clogging of them affects the proper burning of the fuel. When fireplaces and stoves are not in use the dampers should be closed.

Care of furnace or stoves. The same care should be given to the heating plant as to one's automobile. If the furnace or stove is out of order fuel will be wasted just as gasoline is wasted when the automobile is out of repair. If cracks are found in the furnace it needs prompt attention. A cracked or broken grate should be repaired or replaced.

Advice as to the most efficient and economical use of fuel in various types of heating plants can be obtained in many cases from the makers of the plants.

There are few householders so situated that they can not save money by attention to weatherproofing and stopping heat losses. At the same time, they will be doing a good turn for their neighbors by saving fuel.

WILL CONTRACTORS BECOME OBSOLETE?

How will the directory of 1950 define the word Contractor?

Will the definition likely be:

CONTRACTOR: 1. One who enters into a contract with another person or corporation.

2. (OBSOLETE) One who agreed to do a certain piece of work, usually manual labor, for a sum agreed upon at the time of entering into the agreement. Sometimes this sum was a fixed amount, but more usually it was based upon a specified rate per unit of measurement. During the first quarter of the twentieth century, such contractors were found in every section of the United States. Shortly after the World War, this method of doing business was superseded by a system known as "Force Account," and the contractor is now an extinct species. (Universal Dictionary, edition of 1950.)

If the contractors of the United States do not wake up and start some sort of a publicity campaign, their grandchildren will read some such definition as this in the dictionaries of their generation. In fact, if something isn't done soon, we may all read it in the next issue of Webster. The extent to which public officials are entering the construction field is causing the contractor a maximum of worry with a minimum of work, and private enterprise reveals signs of following the lead of our public servants.

In the good old days, the kind we love to talk about, though we would dislike having to live in them, there were no contractors, in fact, no specialists of any kind. The barber attended to healing the sick as a side line—that was how he acquired his striped pole, and his penchant for combining blood letting with your morning shave. The pastor of the village church taught school in his spare time. The attorney practiced law when it did not interfere with trade at his general store. And everyone "pitched in" when there was a road to be built, or a new building to be erected. Old barn raisings were events.

Today we tell the barber to stick to his shop. Specially trained physicians minister to us when we are ill. The pastor devotes all his time to his spiritual work, and the storekeeper remains in his store, while licensed attorneys dispute the fine points of the law as long as their clients remain solvent. Barn raising has in large measure gone the way of the apple jack and the peach brandy which were so prominent a part of the festivities in grandfather's time. The neighbors leave building construction to men who have specialized in that field.

But the contractor, having reached a point where he was regarded as indispensable, is now being eliminated. Not the big fellows, of course. But the big business man of today was the little chap of a few years ago, and where do you find the small contractor in these times?

Young Men Deprived of Opportunities

What chance have our ambitious young men, fresh from schools, universities or practical training—boys just as energetic and virile as their fathers a generation ago—what chance have they to carve their way to success in the contracting field?

There is work to be done in their cities, in their counties, their states. But do they have an opportunity to bid on some portion of it, to establish themselves in business in a small way, and to take pride in having done their bit to improve their community? They do not.

Some states provide that all public work shall be let by contract to the "lowest responsible bidder." It is practically impossible to persuade the average taxpayer that the man who submits the lowest figure is not just as responsible as the one whose bid is a little higher, but even that is not the worst feature of the matter. Before the war, few state and county officials tried to evade the plain provisions of the act. Today, it is getting quite common to call for bids, reject them all, and then do the work by "Force Account."

One state has a law providing that all counties having a population in excess of 50,000 shall call for bids on all public works. As there is only one county in this state which comes under the provisions of the act, all other sections of the commonwealth may do as they please. And they do.

In either case, what chance does the boy have to establish himself in business? In one instance, after he has spent time and money in preparing a reasonable bid, he sees his proposal filed away in a pigeon hole. In the other, he does not even get a chance to bid. Some city, state or county official, totally ignorant of the difficulties of contracting, but supremely confident of his ability to do the work more cheaply than can any one else on earth, decides to do it by "Force Account." The boy gets the choice of handling a pick and shovel, or of going without work altogether.

A large educational institution in a Western State recently enlarged by constructing a big building. Graduates of the college, ambitious to start their business careers on the campus of their alma mater, would have liked to submit bids on portions of the work. Were they allowed to do so? Not a bit of it. All work was handled by day labor, an employe of the college acting as superintendent of construction. He did a good job, but the boys got their business education at the end of a long-handled shovel.

Every county in the United States has many small jobs which should be let by contract. They are too small to interest the big fellow, but the little chap needs them and needs them badly.

Big Contractors Not Exempt.

Even big contractors are being hit by the menace. Observe the municipal paving plants that are springing up all over the country, representing another encroachment by public officials upon what should be wholly a matter of private enterprise. Grant that these officials can do the work as cheaply and as efficiently as experienced contractors. They can't—but grant it for the sake of argument. What then? Will they build up efficient organizations and maintain them permanently? Or will Bill Jones be retained as foreman only as long as the Republicans remain in power, to be replaced by the inexperienced Mike Collins when the Democrats win an election? And will either Bill or Mike spend much of his time studying the science of paving, when he knows that the next election may throw him out of a job? Naturally he will devote most of his time to electioneering. The plant can go hang!

This condition is partly the fault of the contractor himself. He greeted the "cost plus" type of contract as an ideal system, one that would eliminate his worries while giving him a fair profit. He failed to see that it was necessary to educate the public to the fact that contracting is a highly specialized profession, and that the "plus" covered such intangible, but valuable, items as organizing ability, overhead, and a multitude of similar expenses. The public did not understand. It saw that it was paying the full cost of the work with an added profit to the contractor. It thought, not unnaturally, that it could do the work itself at cost, and save the "plus."

But can it? It has not the training to organize properly, to buy in the cheapest markets, to carry on the work in such a manner that there shall be no delay, nor to handle the labor problem without friction. All the public sees is the cost of the work, not realizing that the cost of work under public direction is greater than the bid a contractor would have made, or greater than the "cost plus" price of an experienced builder. Much publicity—call it propaganda if you will—will be required to teach the public that it takes trained men to build a highway, install a sewage system, or erect a building. We have such trained men today. Will we have them in the next generation?

Must Correct False Notion

We all know, of course, why some public officials are refusing to give work to contractors. Contractors are such a bunch of bad eggs. Think of their record during the War! They actually took contracts for building the cantonments on an iniquitous "cost plus" basis, and think of the cost of those army camps! That labor and materials soared in price from day to day during the entire period of construction has nothing to do with the case. Had the contractors been honest, patriotic citizens, they would have built the barracks at the same cost as was in force in 1916. To be sure, no contractor has been convicted, or even indicted for graft or for profiteering in this connection, but that is all due to the failure of the attorneys to prosecute, or of the courts to take drastic action.

Rot? Certainly, but does the public know that? Or know that the charge is just a smoke screen thrown up to give a lot of deserving political retainers a chance to get on the payroll? No, because the public has no chance to know it. Its reading conveys the other idea, from the little weekly published in the county seat and kept alive by printing the legal notices passed out by the powers that be to the Congressional Record with its latest attack on the profiteers. Is it any wonder the public believes as it does when it has no opportunity to learn the other side of the question?

It is time the contractor presented that other side of the case, instead of sitting back, secure in the conviction that "Truth crushed to earth will rise again." Undoubtedly it will; but it won't hurt to give it a helping hand. It may otherwise not rise until too late to do our boys any good.—*American Contractor.*

You know what propaganda is, don't you? You know, too, how effective a weapon it is, if used properly, don't you? Well, advertising—honest, fair advertising—is the best propaganda we know of. Join the propagandists now! Advertise in the "Builders' Guide."

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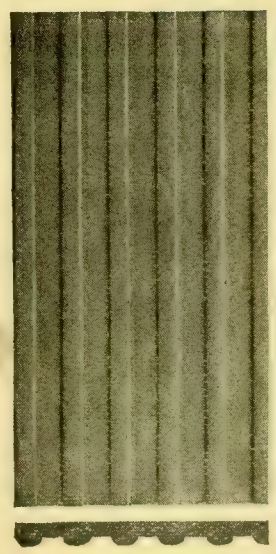
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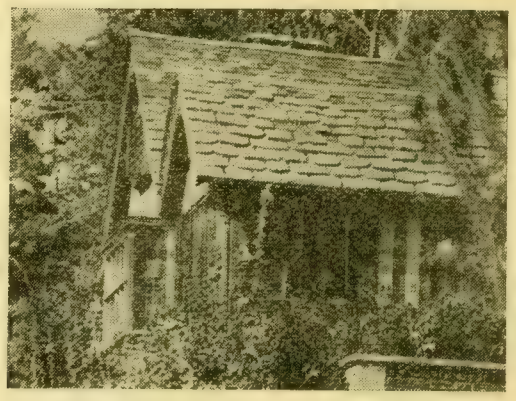
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November 29, 1922

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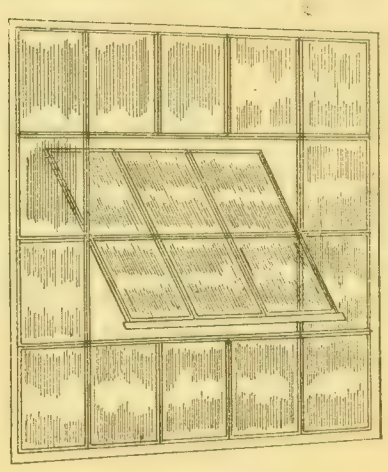
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¶ To be sure you are listed correctly under the classifications you desire, send names, addresses, Bell and Keystone 'phone numbers, and list of products you sell or manufacture, to 826 Perry Building, Philadelphia.

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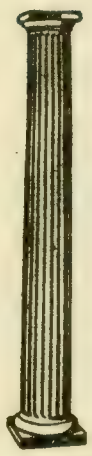
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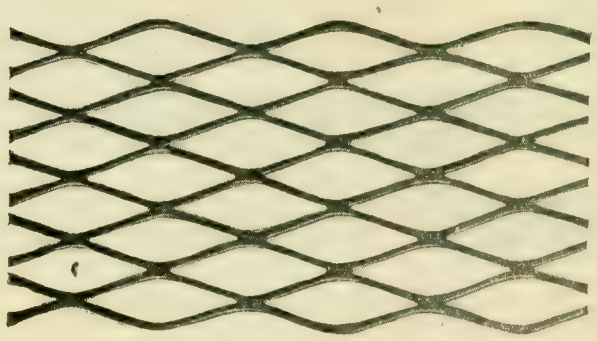


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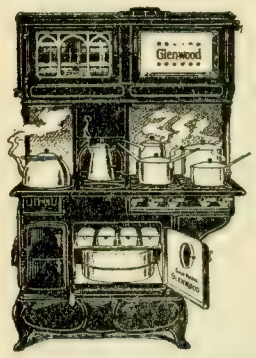
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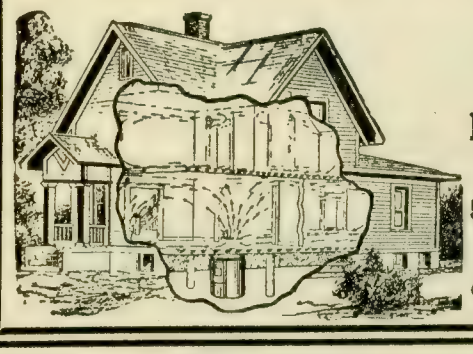
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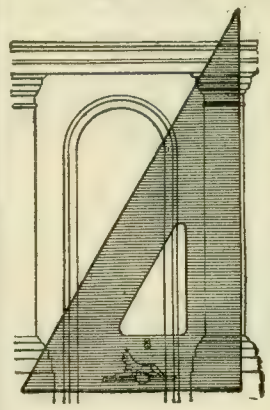
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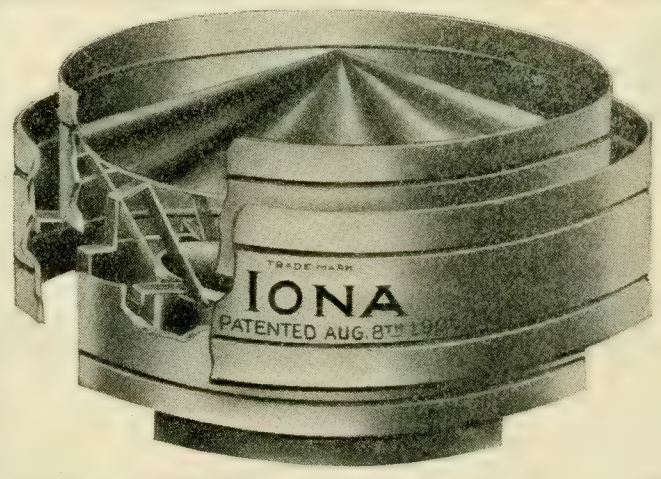
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXVII
Number 48

PHILADELPHIA
November 29, 1922

BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

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BY

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As The Editor Sees It

SUPPLY and demand still regulate prices of everything from food to labor, hence the large wages being paid plasterers at the present time. The ideal state, of course, is an honest day's pay for an honest day's work, but we have not yet reached this state of idealism. However, there is a constant effort toward fair dealing on the part both of employers and employes, which should eventually bring about much more peaceful and equitable conditions in the field of industry. Strikes, heretofore the only weapon which labor has considered effective to wield against employers, will certainly be lessened, and perhaps, done away with, in the striving for co-operation and understanding between employer and employee.

The most notable example along these lines which has come to our attention recently is the establishing of a National Council on Industrial Relations for the Electrical Construction Industry. The Committee consists of five members appointed by the National Association of Electrical Contractors and Dealers and five members appointed by the International Brotherhood of Electrical Workers.

The principles laid down by the committee are:

"Facilities of the electrical industry for service to the public will be developed and enhanced by recognition that the overlapping of the functions of the various groups in the industry is wasteful and should be eliminated.

"Close contact and mutually sympathetic interest between employe and employer will develop a better working system, which will tend constantly to stimulate production while improving the relationship between employe employer and the community.

"Strikes and lockouts are detrimental to the interests, alike of employe, employer and the public, and should be avoided.

"Agreements or understandings which are designed to obstruct directly or indirectly the free development of trade, or to secure to special groups special privileges and advantages, are subversive of the public interest and cancel the doctrine of equality of rights and opportunity, and should be condemned.

"The public interest is conserved, hazard to life and property is reduced, and standards of work are improved by fixing an adequate minimum of qualifications in knowledge and experience as a requirement precedent to the right of an individual to engage in the electrical construction industry, and by the rigid inspection of electrical work, old and new.

"Public welfare, as well as the interests of the trade, demands that electrical work be done by the electrical industry.

"Co-operation between employee and employer acquires constructive power, as both employes and employers become more completely organized.

"The right of employes and employers in local groups to establish local wage scales and local working rules is recognized, and nothing herein is to be construed as infringing that right."

So far the council's efforts have met with unqualified success and many strikes, or rather, threatened strikes, have been settled or called off. When such a plan is put to work in other industries, the losses imposed upon employer, employe and the public by strikes will be eliminated.

Mr. G. D. Bury, secretary of the Electrical Contractors' Association of Cleveland, has declared:

"The Council on Industrial Relations in the Electrical Construction Industry has been of the greatest benefit to all concerned. It handled a dispute over wages here in Cleveland that might have tied up the industry at a time when we could ill afford any losses. That we have worked under the decision which they handed down and have had no stoppage of work because of any of the factors which they dealt with is good enough evidence that the principle of the council is sound. Personally, I believe that this method of settlement is the most logical one that can be found.

"To call an arbitration board composed of three groups, the public, the employers in the dispute and the work-

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ers is nearly always deemed unfair by labor. They claim that the representatives of the public on any such board are always selected from those people who are themselves employers of labor in other lines or are interested in such employment. Follow the history of decisions handed down by such groups and you will find that there has been more trouble in enforcing the decision than there would have been if the employers and the employes had gone to bat in the first place."

Joseph G. Shryock, C. E., M. C. E., Associate Member A. S. C. E., has just been appointed Chief Engineer of the Belmont Iron Works, Designers, Manufacturers and Exporters of structural steel with Plants at Philadelphia and Eddystone, Penna.

After graduating in Civil Engineering at the Pennsylvania Military College in 1900, he became associated with the Bridge and Construction Department of the Pencoyd plant of the American Bridge Co.

In 1903 he accepted a position in the Engineering Department of the Virginia Bridge and Iron Works at Roanoke, Va., remaining there until 1904 when he returned to Philadelphia to accept a position with the Belmont Iron Works. In 1906 he was appointed Designing Engineer, which position he held until his present appointment.

He joined the American Society of Civil Engineers in 1901, and in 1921 was awarded the honorary degree of Master of Civil Engineering by the Pennsylvania Military College for his professional work in connection with large industrial plants built by the Belmont Iron Works during the great war.

THE HOME BUYER AND HIS PROBLEMS

By JOHN M. GRIES, *Chief, Division of Building and Housing*

(*Address before New York State Association of Real Estate Boards, Albany, N. Y., October* 20, 1922.)

Surveying the country from coast to coast and from the Lakes to the Gulf, we find housing conditions spotted. Here and there are dying villages and static cities in which there are many more houses than jobs. The leaders in the upbuilding of these towns or cities failed to forecast clearly their future. On the other hand we find cities in which the planning was inadequate, the forecast was faulty, and the builders were unable to meet the demand for new houses.

As long as two or more families must live in one small apartment, as long as people must live in unsanitary houses, there is a housing shortage which should be remedied. Some one may say that there is no housing shortage in his city. This may be true. It may also be true that the man who says this is the agent for several 10, 12, and 14-room houses. He may say "just look at the number of houses that are vacant." There may be a surplus of large houses, but how about the five and six-room houses? If the demand for these houses cannot be supplied, there is a housing shortage notwithstanding the fact that any number of large houses may be vacant. If the people in need of houses cannot pay the rent asked for the large houses, they are of little use. Whether or not you believe there is a housing shortage depends somewhat upon the point of view. Suppose you visited nearly all of your local stores, being badly in need of a new hat. Suppose you were told by each and every dealer, "We haven't your size, but we have several hundred brown derbies, size 7 7/8." Now the dealers might not admit a hat shortage, but most of us would be convinced that there was a shortage.

In some cities it is next to impossible to overcome the shortage at present. The cost of building is so high and the income of those who should be in the market for houses so reduced, that little is being done. If there are too many houses they will not rent for enough to make ownership a paying investment. If there are not enough houses, rents will be high and the people dissatisfied. The housing shortage will not be relieved unless the money invested will afford a satisfactory return. Occasionally when conditions are abnormal or unsatisfactory some kind of a simulus is provided, or restrictive measures enacted. While some measures prove helpful, artificial restrictions very frequently prevent the fulfillment of the very things which legislation is intended to provide.

The Department of Commerce, under Mr. Hoover's leadership, is actively interested in housing in the broad sense; interested in providing better homes under private initiative and management, and is co-operating with all groups in bringing about improvements. The Department appreciates the co-operation and assistance received during the past year from the various real estate boards, and is ready to work with you in your efforts to improve housing conditions.

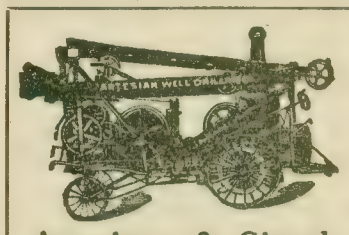
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(Continued on page 770)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, Northeast Corner Fifteenth and Allegheny avenue, Philadelphia. Architect, A. Levy, 1208 Real Estate Trust Building, Philadelphia. Owner, B. Miller, 604 South Second street, Philadelphia. Brick, terra cotta, limestone and granite, 4 stories and basement, 92x137 feet, slag roof, hardwood floors, electric passenger elevators, dumb waiters, ornamental iron work, fire doors, mill work, vapor vacuum heating, electric lighting, tile and marble work. Plans in progress. Architect will take sub-bids in three weeks.

Garage, 223-25-27 Lombard street, Philadelphia. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Abbott's Alderney Dairies, Inc., E. R. Linhach, Thirty-first and Chestnut streets, Philadelphia. Brick, steel and concrete, 3 stories, 104x200 feet. Plans completed. Architect will take bids in a few days.

Residence, Overbrook, Philadelphia. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Joseph M. Pugh, Morris Building, Philadelphia. Stone and stucco, 2½ stories. Plans in progress.

Stores (2) and Apartment Building, Northeast Corner Baynton and Rittenhouse streets, Philadelphia. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owner, S. Bovio, on premises. Brick, steel and cut stone, 2 and 3 stories, 81x40 feet, slag roof, pine and mineral floors, hot water heating, electric lighting. Plans in progress. Will be ready for bids in one week.

Stores (2) and Apartments (4), Broad street and Sixty-fifth avenue, Philadelphia. Architect, Robert C. Winter, 11 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 3 stories, 22x75 feet, slag roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Plans in progress. Architect will take sub-bids.

Residences (alts. and add.) to Apartments, 119 Woodstock street, Philadelphia. Architect, Salvator J. Gritti, 817 North Sixteenth street, Philadelphia. Owner, Mrs. S. L. Bauerle, care of architect. Brick, 1 and 2 story add., irregular, slag roof, hardwood floors, hot water heating, electric lighting. Plans in progress.

Residences (2), Stanton street and Washington avenue, Philadelphia. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 32x48 feet. Plans in progress. Will take bids in one month.

School, Sixth and Mountain streets, Philadelphia. Architect, E. L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Association Talmud of Torahs, on premises. Brick, cut stone, reinforced concrete and steel, 3 stories, 45x68 feet, slag roof, pine and maple floors, metal lath, demolition, steam heating, electric lighting, tile and marble work, hollow metal sash and doors, bond, terra cotta. Revised plans in progress.

Apartents, Store and Garage (alts. and add.), Thirty-second and Baring streets. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. General alterations and additions. Plans in progress.

Kitchen Wing, House of Correction, Holmesburg, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Correction, City Hall, Philadelphia. Brick, concrete and steel, 1 story, 75x115 feet, Barrett roof, concrete and pine floors, metal lath, roof ventilators, iron work, floor hardener, rolled steel skylights, demolition. Owners will take bids in one week.

Building (alts. and add.), 419 South Fifth street, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, H. Solomon, care of architect. Plastering, painting, brick work, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile and marble work, plumbing, carpentry, mill work, metal ceilings, plate glass, copper bars. Architect will be ready for bids in a few days.

Residences (52), Stafford street, Germantown, Philadelphia. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut Terrace, Philadelphia. Stone, 2½ stories, 24x33 feet, slate and slag roof, hot water heating, electric lighting, hardwood floors, tile work. Plans in progress. Owner will take sub-bids.

Church Building, Chestnut Hill, Philadelphia. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, St. Paul's Protestant Episcopal Church, Rev. J. H. Chapman, Chestnut Hill, Philadelphia. Stone, 1 story, slate roof, hardwood floors. Plans in progress.

Stores and Apartments (2), 230-232 South Tenth street, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, H. Seidman, 5009 B street, Philadelphia. Brick, 3 stories, 17½x64 feet each, slag roof, hardwood and pine floors, metal ceilings, hot water heating, electric lighting, tile work. Owner will be ready for sub-bids in a few days.

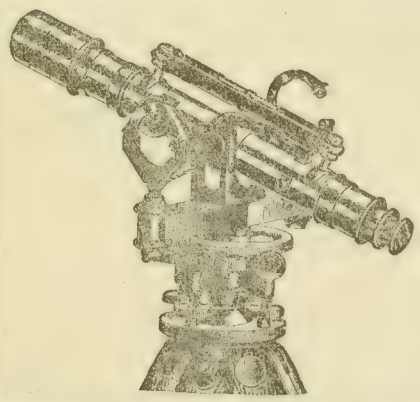
Residences (2), 4808-10 North Second street, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, William Finkelstein, 412 North Second street, Philadelphia. Brick, 2 stories, 17x76 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Owner is taking sub-bids.

Garage, Southeast Corner Twenty-sixth and Wharton streets, Philadelphia. Architects, Stuckert Co., Crozer Building, Philadelphia. Owners, S. B. & B. W. Fleisher, Inc., Twenty-fifth and Reed streets, Philadelphia. Brick, concrete and steel, 1 story, 60x150 feet, slag roof, cement floors, hot water heating, electric lighting, rolled steel sash, fuel oil-burning equipment. Architects will build and are taking sub-bids.

Store (add.), 420 East Rittenhouse street, Philadelphia. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owner, Joseph Caruzzeri, on premises. Brick, 1 story, 15x19 feet, tin roof, mineral floors, hot water heating, electric lighting, plate glass, mill work. Architect taking bids due as soon as possible.

Apartment House (alts. and add.), Northeast Corner Eleventh and Lehigh avenue. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Donnelly & Suess, 1015 West Lehigh avenue, Philadelphia. Brick, reinforced concrete and steel, slag roof, metal lath, iron work, hot water heating, electric lighting, tile and marble work. Architect and owner taking bids due December 7th.

Store (alts. and add.), 636 South street, Philadelphia. Architect, William L. Charr,



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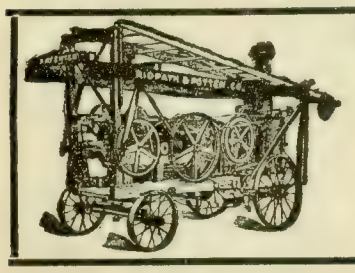
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149 South Fourth street, Philadelphia. Owners, Ideal Furniture Co., on premises. Brick, 3 stories, 18x58 feet, slag roof, wood floors, metal lath, elevator, metal ceilings, metal bulks, bond, fire doors, rolled steel sash and skylights, marble work, electric light, hot water heating. Architect taking bids due December 15th.

Store, 541 East High street, Germantown, Philadelphia. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owner, Vincent Geoffre, on premises. Stone front, 1 story, 25x18 feet, slag roof, mineral floors, hot water heating, electric lighting. Bids due as soon as possible.

Junior High School, East Washington Lane and Musgrave streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due Decembre 7th at noon.

Schools (3), (repairs), Philadelphia. Architect ,private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Campbell School, new house tank, Kelly School, new stacks, West Philadelphia High School, oil guards. Owners taking bids due December 7th at noon.

Stores and Offices (alts. and add.), 219 South Seventeenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Charles C. Orangers, 116 S. 11th street, Philadelphia. General renovation. Architect taking bids due December 4th.

Garage, Southwest Corner Columbia and Glenwood avenues, $100,000. Architect, private plans. Owners, Philadelphia Realty Co., 111 West Mt. Airy avenue, Philadelphia. Brick, 2 stories, irregular size, slag roof, cement floors, electric lighting. Owner will build.

Residences and Stores (2) and Residences (32), Fifty-sixth and Diamond streets, Philadelphia, $182,400. Owners, Frank Williams & Son, 701 South Fifty-eighth street, Philadelphia. Brick, 2 stories, 16x40 feet and 16x31 feet, 12x9 feet, slag roof, oak and pine floors, electric light. Owners will build.

Residences (4), Sixty-fifth and Lansdowne avenue, Philadelphia, $43,000. Architect, private plans. Owner, James J. Moore, 4039 Lancaster avenue, Philadelphia. Brick, 2 stories, (1) 21x39 feet, 18x8 feet, (3) 20x37 feet, slag roof, oak and pine floors, hot water heating, electric lighting, tile work. Owner will build.

Residences (10), North side Wellesly, West of Lincoln Drive, $9,000 each. Architect, private plans. Owner, John H. McClatchey, Land Title Building, Philadelphia. Brick, 3 stories, 16x36 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

Residences (2), East side York Road, North of Sixty-eighth avenue, $8,500 each. Architect, private plans. Owner, Theodore K. Boesch, 6801 York Road, Philadelphia. Brick, 2 stories, 18x24 feet, 15x36 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residences (5), East side Seventy-ninth street, South of Avenue E, $18,000. Owner, Paul Brosz, 2511 West Huntingdon street, Philadelphia. Brick, 2 stories, 16x28 feet, 12x7 feet and 18x35 feet, slag roof, hot water heat, electric light. Owner will build.

Shop, North side Forty-seventh street, South of Woodland avenue, $8,000. Owner, I. W. Massey, on premises. Brick, 1 story, irregular size, slag roof, cement floors, electric lighting. Owner will build.

Garage, South side Pratt street, West of Hawthorne street, $5,000. Owner, Adam Forepaugh, Northeast Boulevard and Bustleton avenue, Philadelphia. Brick, 1 story, 15x142 feet, slag roof, cement floors, electric lighting. Owner will build.

Residence, 5158 Ridge avenue, Philadelphia, $6,000. Architect, private plans. Owner, W. F. Rayner, 4128 Pechin street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Residence, East side Jackson street, South of Hartel street, $5,300. Architect, private plans. Owner, Anthony Maymore, Holmesburg, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heat, electric light. Owner will build.

Residence, North side of Greenway avenue, East of Sixty-eighth street, $4,500. Architect, private plans. Owner, Peter Mooney, 8135 Dicks avenue, Philadelphia. Brick, 2 stories, 16x52 feet, slag roof, electric lighting. Owner will build.

Residence, North side Cottman street, East of Montour, $4,300. Architect, private plans. Owner, Harry Glaser, 1214 North Leithgow street, Philadelphia. Frame, 2 storiese, 22x32 feet, hot water heating, electric lighting. Owner will build.

Residences (2), South side Fillmore street, West of Mulberry, $3,000 each. Architect, private plans. Owner, Charles H. Gaskill, 1740 Fillmore street, Philadelphia. Brick, 2 stories, 16x20 feet and 20x14 feet, slag roof, hot water heating, electric lighting. Owner will build.

Garage, 1908-10-12 Butler street, Philadelphia, $2,300. Architect, private plans. Owner, W. F. Chapman, 1805 West Venango street, Philadelphia. Brick, 1 story, 18x92 feet, slag roof, cement floors. Owner will build.

Shop, 2510-12 Harold street, Philadelphia, $3,000. Owner, Paul Brosz, 2511 West Huntingdon street, Philadelphia. Brick, 2 stories, 36x60 feet, slag roof. Owner will build.

Garage, 4810 Parrish street, Philadelphia, $2,500. Owner, Eugene F. Ward, 4812 Parrish street, Philadelphia. Brick, 1 story, 29x90 feet, slag roof, electric work, cement floors. Owner will build.

Apartment (alts.), 1616 Diamond street, Philadelphia, $2,900. Architect, private plans. Owner, H. Ellenberg, 1412 Diamond street, Philadelphia. General alterations. Owner will build.

Residence, East side Ashton Road, South of Grant avenue, $3,000. Architect, private plans. Owner, Thomas W. Durken, 1510 Palmer street, Philadelphia. Frame, 2 stories, 40x30 feet, shingle roof, hot air heating, electric lighting, pine floors. Owner will build.

Garage, 27 East Garfield street, Philadelphia, $2,000. Architect, private plans. Owner, Frank C. Gruler, 22 East Wister street, Philadelphia. Brick, 2 stories, 52x56 feet, slag roof, cement floors, electric lighting. Owner will build.

Grading and Paving, Philadelphia. Owners, Bureau of Highways, F. C. Dunlap, City Hall, Philadelphia. Owners taking bids due December 1st at noon at 216 City Hall.

Grading—Annsbury street, Palethorpe to Rising Sun avenue; Bridge street, Roosevelt Boulevard to Summerdale avenue; Churchview street, Tower street to Terrace street; Hope street, Louden street to Rockland street; Luray street, D to Whitaker street; Pine street, Forty-eighth to Forty-ninth street; Sansom street, Forty-ninth to Fiftieth street; Smedley street, Sixty-seventh to Sixty-eighth avenues; Stockley street, Westmoreland street to Hunting Park avenue.

Grading and Paving—Lansdowne avenue, Sixty-sixth street to Haverford avenue.

Garage and Office, Southwest Corner Fifty-ninth and Florence avenue, $36,000. Architect, private plans. Owners, Philadelphia Realty Co., 111 West Mt. Airy avenue, Philadelphia. Brick, 1 story, irregular size, slag roof, steam heating, electric lighting, cement floors. Owner will build.

Residence, South side Crothers avenue, West of Ninetieth street, $3,000. Architect, private plans. Owner, Hipotit Maciegewski, on premises. Brick, 2 stories, 16x36 feet, slag roof, hot air heating. Owner will build.

Apartments (alts. and add.), 5219 Wayne avenue, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, J. Walters, care of architect. General alterations, rear brick add., 2 stories, 16x16 feet, slag roof, electric work. Plans in progress. Architect will take bids in one week.

Residence, Cresheim road, Chestnut Hill. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, Harold Nason, 1714 Chestnut street, Philadelphia. Architects taking bids.

Residences, East side Academy road, West of Grant avenue, $4,500. Architect, private plans. Owner, John Gimpel, 1703 North Howard street, Philadelphia. Frame, 2 stories, 21x33 feet, electric lighting. Owner will build.

Garage, Lombard street, between Second and Third streets, Philadelphia. Architect, Walter D. Smedley, Stephen Girard Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets. Reinforced concrete, brick, cut stone and steel, 3 stories, 104x120 feet, Barrett roof, concrete floors, safety treads, iron work, bond, hollow metal sash and skylights, demolition, steam heating. Architect taking bids due December 4th.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Hospital Annex, Sansom and Tenth streets, Philadelphia, $1,400,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Engineers, Stone & Webster, 132 South Clifton street, Philadelphia. Owners, Jefferson Hospital, Tenth and Sansom streets, Philadelphia. Brick, stone, steel and concrete, fireproof, 14 stories, 90x115 feet, steam heating, electric lighting, tile and marble work, hollow metal doors, elevators. Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

Building, 1213 Walnut street, Philadelphia, $50,000. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Walnut Street Realty Co., on premises. Brick, cut stone and granite, 2 stories, 229x26 feet, slag roof, pine and oak floors, metal lath, demolition, electric lighting, steam heating, tile work, hollow metal sash, iron work. Contract awarded to John Schnabel, Inc., Denckla Building.

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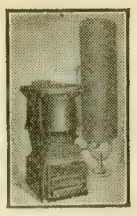
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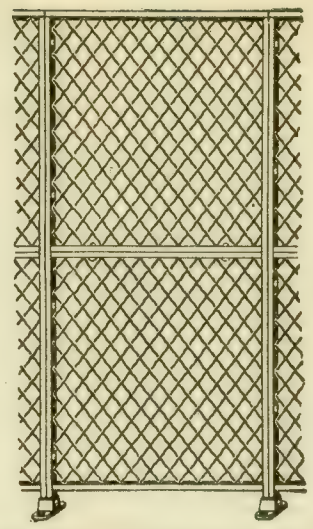
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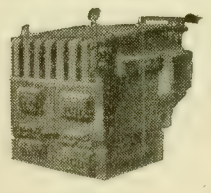
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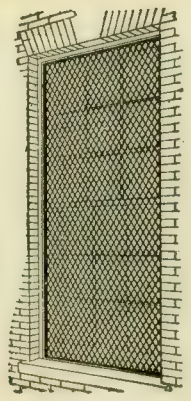
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WAREHOUSE STOCK IN PHILADELPHIA

Club House (alts. and add.), 1511 Locust street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Republican Women's Club of Pennsylvania, 219 South Seventeenth street. Brick and cut stone, steel and iron work, carpentry, mill work, plastering, hardware, painting, electric work, plumbing, bond. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

Packing House (alts. and add.), American and Callowhill streets. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owners, L. Pincus Co., on premises. Brick, concrete and steel, 3 stories, 32x38½ feet, slag roof, cement and composition floors, waterproofing, hollow metal skylights, electric lighting, insulation. Contract awarded to B. Bornstein, 1318 Belfield avenue, Philadelphia.

Stores (2), 5821-23 Germantown avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Charles Marion, on premises. Brick, 3 stories, 28x72 feet, slag roof, composition and pine floors, demolition, marble work, metal lath, rolled steel sash and skylights, bond, metal bulks, iron stairs (electric work, glazing, plumbing and painting reserved). Contract awarded to Dickinson Const. Co., 1128 Dickinson street, Philadelphia.

Building (alts.), 134 Chestnut street, Philadelphia, $7,000. Architect, Walter A. Smedley, Stephen Girard Building, Philadelphia. Owner, Percy A. Legge, on premises. Brick, cut stone work, painting, glazing, carpentry, hot water heating, electric lighting, plumbing, tile work, hollow metal skylights, iron work. Contract awarded to F. E. Wallace, 1220 Chancellor street, Philadelphia.

Foundations, Chestnut Hill, Philadelphia. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, St. Paul's Protestant Episcopal Church, Rev. J. H. Chapman, Chestnut Hill, Pa. Excavation, grading and stone foundations. Contract awarded to J. S. Cornell & Son, Morris Building.

Residences (2), 1914-16 Panama street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. James A. Mitchell, care of architect. Brick and steel, carpentry, mill work, slag roof (heating reserved), plumbing, painting, bond, iron work. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Residence, Midvale avenue, Queen Lane Manor, $13,000. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Harry M. Hughes, Delmar Morris, Germantown, Philadelphia. Hollow tile, stucco and cut stone, 2 stories, 60x30 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, bond. Contract awarded to Lockhart & Simon, 1524 Chestnut street.

Residence (alts.), 1949 North Gratz street, Philadelphia. Architect, private plans. Owner, E. F. Crean, on premises. Carpentry, mill work, demolition, plastering, electric lighting, painting. Contract awarded to A. S. Shafer, 2122 South Nineteenth street, Philadelphia.

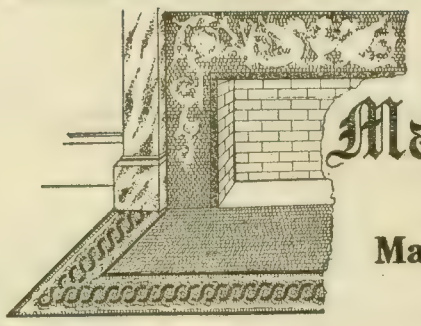
German Seamen's Home, 1402 East Passyunk avenue, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, German Seamen's Home, on premises. Brick, 3 stories, 56x24 feet, slag roof, oak and pine floors, metal lath, steam heating, electric lighting, iron work. Contract awarded to George J. Reich, 5126 North Tenth street, Philadelphia.

Store and Dwelling, 437 North Sixty-third street, Philadelphia, $10,000. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Charles Cutler, care of architect. Brick, 3 stories, 17x60 feet, slag roof, pine and oak floors, hot water heating, electric lighting, tile work. Contract awarded to S. Lazarus, 4914 Parkside avenue.

Bakery, 6007-09 Osage avenue, Philadelphia, $6,800. Architect, Fred N. Griesler, 1035 Walnut street, Philadelphia. Owner, Joseph Winer, care of architect. Brick, 1 story, 34x30 feet, slag roof, cement floors, iron work, bond, electric lighting, demolition. Contract awarded to B. Bornstein, 1318 Belfield avenue.

Factory, Northeast Corner Camac and Cherry streets, Philadelphia, $27,000. Architect, private plans. Owners, Rodgers Engraving Co., 1318 Arch street, Philadelphia. Brick, 2 stories, 31x72 feet, slag roof, pine floors, steam heat. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Store and Storage Building, 235 South Twelfth street, $10,000. Architect, private plans. Owner, Dr. Henry W. Lobb, 1209



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Race street, Philadelphia. Brick, 2 stories, 18x90 feet, slag roof, electric lighting. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Residence, West side Ridge avenue, North of Wigard street, $15,000. Owner, Patrick Powers, 4002 Cresson street, Philadelphia. Stone, 2½ stories, 35x27 feet, slate roof, electric lighting, hot water heating, hardwood floors, tile work. Contract awarded to Elmer L. Cuthbertson, 334 Roxborough avenue.

Garage, 3416 North Nineteenth street, Philadelphia, $14,000. Architect, private plans. Owner, Mrs. Margaret McKever, on premises. Brick, 1 story, 81x75 feet, slag roof, cement floors, electric light. Contract awarded to Thomas M. Kelly, 4411 Germantown avenue.

Warehouse, Southeast Corner Jasper and Ontario streets, $50,000. Architect, private plans. Owners, Bush & Diamond, on premises. Brick, 3 stories, 34x146 feet, slag roof, steam heat, electric lighting, plank floors, steel sash. Contract awarded to Austin Co., 1026 Bulletin Building.

Warehouse (alts.), Northeast Corner Front and Bainbridge streets, $20,000. Architect, private plans. Owners, Merchants' Warehouse Co., Tenth and Chestnut streets. Concrete work, brick work, Peele doors, painting, glazing, slag roof, steel and iron work. Contract awarded to George Kessler Const. Co., 1733 North Marvine street.

Residence and Garage, Southwest Corner Park avenue and Nedro street, $6,500. Architect, private plans. Owner, Albert Woehr, 5918 North Ninth street, Philadelphia. Brick, 2 stories, 16x40 feet, 16x10 feet, garage, 1 story, 9x16 feet, slag roof ,oak, pine and cement floors, electric lighting. Contract awarded to A. E. Voigt, 6108 North Tenth street, Philadelphia.

Garage and Office (alts. and add.), Mascher and Wyoming avenue, $8,500. Owners, Olney Bank & Trust Co., Fifth and Tabor road. Brick, 1 story, 19x18 feet, slag roof, cement floors, electric work. Contract awarded to Northern Const. Co., 515 Fisher avenue.

Store (alts.), 112 South Eighth street, Philadelphia, $3,000. Owner, F. Seger, on premises. General alterations. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Factory (add.), 1224 South Twelfth street, Philadelphia, $5,000. Architect, private plans. Owners, E. Clinton & Co., 2119-23 Arch street, Philadelphia. Brick, 2 stories, 32x70 feet, slag roof, electric work. Contract awarded to L. M. Triant, 137 North Twenty-seventh street, Camden, N. J.

Residence and Store (add. and alts.), 1925 South Sixth street, $3,840. Architect, private plans. Owner, Jacob Asher, on premises. Brick, 2 stories, 16x13 feet, slag roof, pine floors. Contract awarded to M. Glasshoffer, 529 Morris street.

Residence and Store (add. and alts.), 182 Olney avenue, $3,500. Architect, private plans. Owners, J. W. Biddle & Co., 4651 North Fifth street, Philadelphia. Brick, 2 stories, 15x7 feet, slag roof, electric work, pine floors. Contract awarded to L. Gorenstein, 514 West Moyamensing avenue.

Residence, North side Craig avenue, West of Frankford avenue, $4,000. Architect, private plans. Owner, Amanda T. Witard, Frankford avenue, Holmesburg. Brick, 2 stories, 20x28 feet, slag roof, electric lighting. Contract awarded to R. W. J. Williams, 3011 Linden avenue, Philadelphia.

Residences, East side Ditman, North of Wakeling street, $4,500 each. Owners, J. Elert and F. Bingmeister, Ditman, North of Wakeling. Brick, 2 stories, 16x38 feet, slag roof, electric lighting. Contract awarded to Herman Gleim, 1937 Briggs streets, Philadelphia.

Garage, 1108-10-12 South Thirty-first street, $3,000. Architect, private plans. Owner, Mrs. Annie Riddle, 1110 South Thirty-first street, Philadelphia. Brick, 1 story, 48x30 feet, slag roof, cement floors, electric work. Contract awarded to A. J. Logan & Co., 5431 Wyalusing avenue.

Factory (add.), Southeast Corner Bridge and Mulberry streets, $2,500. Architect, private plans. Owners, Wolstenholme Felt Mfg. Co., on premises. Brick, 1 story, 34x52 feet, slag roof, pine floors. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

Store (alts.), 916 North Sixth street, Philadelphia, $2,500. Architect, private plans. Owner, Bessie Green, 914 North Sixth street, Philadelphia. General alterations. Contract awarded to S. L. Green, 914 North Sixth street, Philadelphia.

Building (alts.), Southeast Corner Twenty-second and Spring Garden streets, $2,200. Architect, private plans. Owners, Pequard Mills, on premises. General alterations. Contract awarded to Rush J. Whiteside & Son, 2115 Wallace street.

Residence, East side Bingham street, South of St. Vincent street, $7,650. Architect, private plans. Owner, John C. Arterbay, Willow Grove, Pa. Frame, 2 stories, 32x26 feet, oak and pine floors, electric light. Contract awarded to Harry Murphy, Willow Grove, Pa.

Factory, Northeast Corner Tacony and Van Kirk streets, Philadelphia, $4,000. Architect, private plans. Owners, Continental Leather Co., on premises. Iron, 1 story, 32x120 feet. Contract awarded to Truscon Steel Co., 1432 South Penn Square.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Beaver County, Route 77, Homewood Borough, leegth 2,427 feet. One course reinforced concrete and hillside vitrified brick. $56,183.60. Contract awarded to Albert Dahl, Ellwood City, Pa.

PENNSYLVANIA
Construction News

Theatre and (4) Stores, suburb of Philadelphia. Architect, John Charles Norton, Ardmore, Pa. Owner, C. F. Kline, 110 North Sixtieth street, Philadelphia. Concrete, steel and limestone, 2 stories, 85x200 feet, Johns Manville roof, cement and composition floors, macite partitions, roof ventilators, iron work, kalamein doors, hollow metal skylights, rolled steel sash, marble and terrazzo work, metal lath, steam heating, electric lighting. Plans in progress. Architect will be ready for general bids in three weeks.

Church, Llanerch, Pa., $125,000. Architect, W. Lesher Blithe, 608 Chestnut street, Philadelphia. Owners, St. Andrew's Methodist Episcopal Church, Rev. O. S. Duffield, Llandrillo Road, Llanerch, Pa. Stone, 1 story and basement, 100x125 feet, slate roof, hardwood floors, steam heating, electric lighting, tile work. Plans in progress.

Residence, Garage and Lodge Building, Penllyn, Pa. Architect, John Meigs, 1211 Walnut street, Philadelphia. Owner, Hutchinson Scott, care of architect. Brick, steel, hollow tile, stucco and reinforced concrete, 2½ stories, 60x56 6feet and 46x24 feet, Spanish tile roof, oak, pine and cement floors, hollow tile, metal lath, iron work, bond, hot water heating, electric lighting, tile and marble work. Revised plans in progress.

Parish House, Lansdowne, Pa. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owners, St. John's Episcopal Church, care of architect. Stone, 2 stories, 45x100 feet, slate roof, hardwood floors, steam heat, electric lighting, tile work. Plans in progress.

Memorial Bridge, near Media, Delaware County, Pa. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Engineer, R.

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J. Aydlotte, Court House, Media, Pa. Owners, Delaware County Commissioners, Media, Pa. Reinforced concrete, 330x42 feet, triumphal arch, concrete, 20x60 feet, architectural terra cotta. Plans in progress. Engineer will take bids December 15th.

Ice Cream Factory and Apartments, Clearfield, Pa. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owners, Keystone Ice Cream Co. (Wood Brothers), Clearfield, Pa. Hollow tile and brick, 2 stories, 56x74 feet (3 apartments), slag roof, cement and hardwood floors, steam heat, electric lighting. Plans in progress.

Residence, Garage and Green Houses, Wyncote, Pa. Architects, Dreher, Churchman and Paul, Otis Building, Philadelphia. Owner, J. L. Bush, Jasper and Thayer streets, Philadelphia. Stone, 2½ and 1½ stories. Plans in progress. Architects will take bids in three weeks.

School, Palmerton, Pa., $150,000. Architect, not yet selected. Owners, School Board, Palmerton, Pa. Work contemplated.

Residence, Penn street, Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, W. A. Smoyer, 702 Penn street, Bethlehem, Pa. Brick and stucco, 2½ stories, 42x26 feet, slate roof, hardwood floors, steam heat, electric light. Plans in progress.

Warehouse, South Cameron street, Harrisburg, Pa. Architect, F. G. Hahnestock, Harrisburg, Pa. Owners, Advance Rumely Thresher Co., Inc., Harrisburg, Pa. Reinforced concrete, steel, brick and cut stone, 1 story, 100x180 feet, slag roof, concrete floors, roof ventilators, waterproofing, iron work, floor hardener, bond, hollow metal skylights, rolled steel sash, metal lath, electric lighting, vapor vacuum heating. Architect taking bids.

School Building, Second street, Morton avenue and Melrose street, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, care of George Benjamin, Chester, Pa. Brick. Plans in progress. Too early for details.

Junior and Senior High School (colored), Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, care of George Benjamin, Chester, Pa. Brick, steel, stone and concrete. Plans in progress. Too early for details.

Junior High School, Eighteenth and Upland streets, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, City of Chester, Board of Education, Chester, Pa. Brick, steel and concrete. Plans in progress.

Industrial Building, Eighth and Fulton streets, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, City of Chester, City Hall, Chester, Pa. Preliminary plans in progress. Too early for details.

Building (add.) (Clayton), Sixth and Thrulow streets, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, City of Chester, City Hall, Chester, Pa. Preliminary plans in progress. Too early for details.

Residence, Moylan, Pa., $12,000. Architect, William McKee Walton, 119 South Fourth street, Philadelphia. Owner, Miss J. F. Avery, Moylan, Pa. Hollow tile and stucco, 2½ stories, 20x40 feet, shingle roof, pine floors, hot water heating, electric lighting. Architect will take bids in spring of 1923.

Stores and Apartments (2), County Line Road, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Bert W. Hill, Chestnut street, Ardmore, Pa. Brick, 2 stories, 36x78 feet, Johns Manville roof, maple floors, metal ceilings, plate glass, metal bulks, hot water heating, electric lighting. Owner is taking sub-bids.

Residences (2), Haverford, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Doyle Brothers, Bryn Mawr, Pa. Frame and stucco, 2½ stories, 22x40 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Owners will take sub-bids in two weeks.

Storage House, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Bert W. Hill, Chestnut street, Ardmore, Pa. Concrete and steel, 1 story, 50x54 feet, Certainteed roof, cement floors, kalamein doors, steel trusses, electric lighting. Owner is taking sub-bids.

Garage (5 individual), West Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, John U. Seibert, 541 Penn avenue, West Reading, Pa. Brick, 1 story, 54x33 feet, composition roof, hot water heat, electric light, cement floors. Owner will sub-let.

Twin Residences (32), Allentown, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Aaron Potruch, New and Market streets, Bethlehem, Pa. Brick and stucco, 2½ stories, 32x64 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work, metal lath, leaded glass, fireplaces. Owner will sub-let.

Factory Building and Power Plant, West Berlin, Pa. Architect, private plans. Owners, Baccellieri Brothers, 924 South Eleventh street, Philadelphia. Brick, concrete and steel, 1 story, 50x150 feet, slag roof, cement floors. Owners are ready for sub-bids.

Residence (alts. and add.), Broad street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owner, Mrs. E. H. Gallagher, West Broad street, Bethlehem, Pa. Frame, 2 stories, 12x15 feet, hardwood floors, hot water heating, electric lighting, general interior alterations. Owner ready for bids.

Church (alts. and add.), Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owners, West Side Church, Moravian Congregation, Board of Trustees, G. F. Krause, Bethlehem, Pa. Steel, stone, concrete, 1 story, 31x48 feet, asphalt roof, maple floors, steam heat, electric light, metal lath. Owner will be ready for bids next week.

Factory (alts. and add.), Allentown, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, J. Liebert, Allentown, Pa. Brick and concrete, 2 stories, irregular size, tin roof, concrete floors, elevators, skylights. Owner and architect ready for bids.

Residence, Swarthmore, Pa. Architects, Stuckert Co., Crozer Building, Philadelphia. Owner, W. A. Clarke, Swarthmore, Pa. Stone, 2½ stories, 30x50 feet, slate roof, hardwood floors, hot air heating, electric lighting, tile and marble work. Architects taking sub-bids due December 1st.

Operation of Residences, Glenolden, Pa. Architect, private plans. Owner, Milton Staley, Collingdale, Pa. Brick and stucco, 2½ stories, 16x37 feet, composition shingle roof,

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hardwood floors, hot water heating, electric lighting. Owner is building (14) and will probably build (60).

Garage, Narberth, Pa. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, Henry W. Shelton, Wynnewood, Pa. Stone, 1½ stories, slate roof. Architects taking bids due December 2nd.

Residence (alts.) and Garage, 300 Midland avenue, St. David's, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, James D. Winchell, care of architect. Brick, hollow tile and stucco, 2 stories, 24x18 feet, single and slate roof, ement floors, electric lighting, metal lath, tile work (heating reserved). Architect taking bids due December 4th.

Pennsylvania Contracts Awarded

Work Shop, Allentown, Pa. Architect, Robert Ochs, 764 Hawthorne road, Bethlehem, Pa. Owners, Allentown Poster Advertising Co., 109 North Hall street, Allentown, Pa. Brick, 1 story, 60x125 feet, slag roof, pine and concrete floors, vapor vacuum heating, electric lighting, rolled steel sash, fire doors, skylights, roof ventilators, waterproofing, dampproofing, iron work. Contract awarded to George H. Hardner, Lentz Building, Allentown, Pa.

Residence, Lansdowne, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Samuel Pennock, Lansdowne, Pa. Hollow tile and stucco, 2½ storoies, 32x82 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Joseph Pennock, Lansdowne, Pa.

Factory, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Hubley Mfg. Co., Lancaster, Pa. Mill construction, 4 stories, 60x185 feet, slag roof, maple floors, heating extension, electric lighting, fire doors, waterproofing, dampproofing. Contract awarded to J. H. Wickersham, Breneman Building, Lancaster, Pa.

Residence (alts. and add.), Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Dr. Miller, 217 East King street, Lancaster, Pa. Brick, 1 story, 15x20 feet, slag roof, hardwood floors, hot water heat, electric light, partitions. Contract awarded to D. S. Warfel, 39 East Grant street, Lancaster.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa.

Lawrence County, Route 77, North Beaver Township, New Castle City, 2,893 feet. One course reinforoced concrete, $26,256. Contract awarded to Jamieson & Narlee, Fredonia, Pa.

Crawforod County, Route 200, Sparta Township, 7,612 feet. One course reinforced concrete, $63,536.41. Contract awarded to J. C. Devine, Alliance, Ohio.

Venango County, Route 207, Sugar Creek Township, reinforced concrete bridge, $20,188.39. Contract awarded to Trimpey & Whipkey, Casselman, Pa.

Lackawanna County, A-1975, Old Forge Borough, 5,812 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Michael Rosato & Sons, Scranton, Pa., $40,224.20.

New Jersey Construction News

School, Bordentown, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, Bordentown School Board, Edward Bechtel, secretary, Bordentown, N. J. Brick, 2 stories and basement, 128x110 feet, slag roof, hardwood floors, hollow tile, tile work, rolled steel sash, fire doors (heating, plumbing and electric work reserved), safety treads, roof ventilators ,waterproofing, terra cotta. Owners taking bids due December 11th.

Bungalow, Ventnor, N. J. Architect, A. Levy, 1208 Real Estate Trust Building, Philadelphia. Owner, name withheld. Frame, 2 stories, 22x48 feet, shingle roof, hardwood floors, hot water heating, electric lighting. Plans in progress.

Ice and Cold Storage Plant, Hammonton, N. J. Architects, William F. Koelle Co., Twenty-sixth and Oxford streets, Philadelphia. Owners, Littlefield Ice & Coal Co., Hammonton, N. J. Brick and steel, 1 and 2 stories, 65x105 feet, slag roof, cement floors, rolled steel sash, refrigeration, insulation, pumps, machinery, equipment. Architects will build.

Bungalow, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owner, H. A. Stutts, Plainsboro, N. J. Hollow tile and stucco, 1½ stories, 30x60 feet, slate roof, hardwood floors, hot water heat, electric light. Owner will take bids.

New Jersey Contracts Awarded

School, Egg Harbor ,N. J. Architect, Frank F. Sanders, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, Egg Harbor, N. J. Contract awarded to Jacob Albert & Carl Weiler, Egg Harbor, N. J.

Residences (2), Liberty street, Trenton, N. J., $6,000. Architect, private plans. Owner, Michael Kelly, care of builder. Brick, 2½ stories, 14x46 feet, slate roof, pine floors. Contract awarded to Louis Mangold, 330 Bert avenue, Trenton.

Store and Residence, Brunswick avenue, Trenton, N. J., $7,000. Architect, private plans. Owners, Trenton Trust Co., State and Chancery streets, Trenton. Brick, 2½ stories, 36x63 feet, slate roof, hardwood floors, steam heating, electric lighting. Contract awarded to General Cont. & Const. Co., 117 Emory street, Trenton, N. J.

Miscellaneous Construction News

Store, Van Dever and Pine streets, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Buuilding, Wilmington, Del. Owner, Daniel Levine, 529 Van Dever street, Wilmington. Brick, 1 story, 30x48 feet, rubberoid roof, hardwood floors, hot water heat, electric light, plate glass, metal ceilings, ornamental iron work. Owner ready for general and sub-bids.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

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(Continued from page 760)

with repeat orders. The average retail dealers' success depends upon repeated returns of his customers. Only stores with a transient trade dare skin their customers alive. A business dependent upon repeated sales to the same customer is forced to maintain a high ethical standard. However, many of your customers buy homes or property but once or twice. As a rule they are neither good judges of location, nor of construction or values. They do not know what to look for. Many are ignorant of the most common trade practices, ethics and law. The fly-by-night real estate man sells largely to the ignorant and unsuspecting, and his action can implant in the public mind a distrust of all real estate men.

We are your customers. What do we want? What have you to offer? We become skilled in doing the things we do often; we may become skilled buyers if we buy often; but first performances as a rule are crude. Most people buy but one or two houses in the course of a lifetime. Because of your experience you are in a strategic position to be of real service. What service do you render to the home buyers? If the customer is stung, he blames you, but if you aid him to acquire a bargain he credits it to his own business sagacity.

Is salesmanship highly developed in the real estate field? Does it tend to educate the customer? The milliners have the real estate men badly beaten. They never try to put two women's heads into one hat the way you put two families into one apartment. On the contrary they succeed in putting one woman's head into seven hats and you put seven women's heads into one flat, and your action may in part be due to the fact that the milliner sells the seven hats.

Some retail stores will not sell over their counters merchandise below a certain standard of quality. Is it the real estate dealer's function to sell anything offered for sale? Or is he at liberty to refuse to negotiate the sale of a Jerry built house? As long as the real estate dealer will sell anything for a commission, is it not impossible for him to take much interest in educating the public along the lines of the quality of the house? Will he not follow the doctrine—let the buyer beware?

We hear a great deal nowadays about vocational education. Universities and schools of various kinds are offering courses of special training to educate men and women in practically any trade or profession they may choose to follow. And if we examine the advertising pages of the daily papers and the magazines, we find some conspicuous examples of another phase of modern education—that of manufacturers educating their customers. The automobile manufacturers have done a great deal to make us think we need an automobile, and to inform us all about such matters as tires and gasoline and oils. In the clothing field there is no lack of education in the season's best styles. The food value of manufactured foodstuffs is told us repeatedly, and the advocates of an article of food frequently give sound information on the essentials of a balanced diet and kindred subjects. And just think of the educational work being done by those who produce labor-saving equipment for the home. They tell us how to get the article, where to get it, how to use it, and how to take care of it.

At such a period, what do we find in the way of education for those who wish to buy a home? To be sure, a few special periodicals devoted to the subject of housing are doing good work in a limited way, but they are concerned largely with the artistic side of a home. Nowhere do we find a conscious effort made to provide the balanced information people need in the selection of a home.

But, you may say, education is a matter of months or years of constant learning, and is applied to some work or habit you expect to use all the rest of your life. How then can you expect us to educate a man in something he does only once or twice in his life—like the buying of a home?

Now buying a home is something like taking a trip abroad. Many of those who take it do it only once or twice in their lives. But if there is any point on which the tourist is uninformed when he starts, it is because it slipped the ticket agent's mind. He is told which boat is best to take, which hotels will give the most comfortable accommodations, what points of interest to look for and how to reach them.

Do you real estate men do as much for your customers? Do you leave pamphlets in hotel lobbies, or send copies to prospective home-buyers, educating them along the lines they are going to need? Do you tell them how to recognize a section where values are bound to remain good for years to come? How to tell a well constructed house when they see it? Do you teach them what they have a right to expect in the way of protected property rights?

Teach people what to demand in the home they buy. Teach them what are the essentials of comfort, convenience and beauty, and what are the unessentials which can be added later, as the debt on the house diminishes. Architects and builders have done a good work in educating the public away from the ornate trim which decorated the gable and cornice and porch of the last generation. Now teach them to know a house that is a worth-while investment.

You know and I know that real estate dealers render exceptional service to those who buy homes. They prevent many mistakes. They do not take all the traffic will bear. The very fact that the strong man has come forward, standing for public service, is the thing that is bring about public confidence in you. If you retain that confidence you must eliminate, insofar as possible, those who do not follow the highest standards.

You do more than fit families into homes. You have much to do with the kind of cities we live in. You take interest in the protection of the homes through zoning ordinances and wise planning of cities to prevent waste. In fact the leaders are active in all that relates to better housing.

The prospective buyer of the home as a rule has few dependable standards by which he can judge the value of a piece of property. He frequently knows little about sound methods of financing his purchase. Some feel that they need impartial sound advice on such matters as:

1. *Value of the House.* State of repair, quality of construction, foundations, roof, heating and plumbing equipment.

2. *Value of the Lot.* Location, improvements, streets, paving, water mains, gas and electric facilities.

3. *Financing—Trustworthy Lenders.* Advisability of amortizing loans and avoidance of high financial charges.

4. *Expenses of Home Ownership.* Accessories, improvements, repairs, maintenance, depreciation and obsolescence.

Few laymen appreciate the value of the location, quality of materials and workmanship; convenient arrangement of the kitchen; the worth of a dry cellar and the significance of a diagonal crack in the plaster. If it is your job you have much work ahead of you, and it will do much towards obtaining better housing conditions. Should the prospective purchaser be enlightened and, if so, by whom? Or should they be sold anything whatsoever on the theory "let the buyer beware?"

For years we have been saying *save, save, save.* Such admonition has little effect unless back of it there is a clearly defined purpose. We do our best only when we are saving for something definite. The object must be something worth while; it must have a strong appeal and it must be something possible of attainment.

A home of your own is worth while, it has an exceptionally strong appeal, but to many under certain conditions it seems impossible.

It is the duty of all interested in better housing to see that owning a good home and living in better houses is made possible. To encourage home ownership is laudable but to deliberately sell a man a house which you know he cannot pay for is criminal. Your work is to help make home ownership possible, and to

render the service that a good broker should render to his client.

Your aid is needed along many lines. You can help in securing better building codes, plumbing codes, housing laws and proper zoning ordinances. You can aid in creating an American architecture for small houses—help to change the design of our small houses from that of a cross between a dog kennel and a barn to something more attractive.

Judging from the annual reports of many local boards covering "What Has Your Board Done For Its City and Community That Merits Consideration?" the record is a creditable one. Many members have given aid to the establishment and development of building and loan associations which loan money on real estate at reasonable rates. Some boards have investigated charges of fraud made against those who sold real estate, and made it more difficult for the crook to operate. They have also enlightened some buyers who thought they had grievances; they have met the newcomers into the city and aided them in obtaining suitable locations. Your appraisal committees have done very good work. You have interested yourselves in better homes, in demonstrations to show what a home should be, and in many efforts tending to educate the public towards higher housing standards.

The leaders in the real estate field are moving in the direction of higher ethical standards and there is a distinct trend toward rendering greater public service. Within the next few years let us hope that the standards of the laggards will be raised. Then more men will be proud to say "I am a real estate man."

RESTORE CONFIDENCE OF THE EMPLOYEE

Efficiency Only Through Loyalty and Pride of Organization

By Chas. *H.* McAllister, *General Manager, The Lake Erie Construction Co., Cleveland*

In presenting the aims of the Associated General Contractors to the general public, our organization has made gratifying progress, particularly with engineers and architects, and we in the Cleveland District are encouraged by the co-operation we are receiving from them in our efforts to arrive at a better understanding of our mutual problems.

Before us and demanding immediate attention, however, is a weighty problem which must be met and solved before we can carry out that program which we have set for ourselves, which challenges our ability to fulfill the claims of skill and integrity which we are making.

This problem is to sell our organization and all it stands for to our workers.

For nearly eight years the conditions existing have caused an instability in the construction industry, which has resulted in a change in the relationship between employer and employee and has produced an apparent loss of confidence, which formerly prevailed and which must be restored before the construction industry can be again placed where it should be.

Efficiency Through Freedom

Unhampered, the American workman produces efficiently, and should receive remuneration which permits of his right living, maintenance of self respect and freedom of thought and action. It would be folly on the part of the employer to contemplate any action tending to restrain the worker's right to affiliate himself with responsible trade organizations which have for their aims the betterment of working conditions. It is right, however, that the Associated General Contractors of America should present to the worker in the construction industry, frankly and clearly, its aims as an organization, particularly its ambition to place the industry on a high plane, and leave to his fairmindedness the question of how far he will co-operate in establishing the industry on that plane.

Our American institutions have fostered the spirit of accomplishment in our people. In times past and through the individual expression of ambition, we have prospered. Hampering this spirit through control of production will surely suppress individualism, and will further tend to utterly destroy the relationship between employer and employee which has existed to the great advantage of both.

What Has Happened

In attempting to carry out our present construction program, we daily come into contact with the same condition in industries linked with ours, and also in those transporting our supplies and material. A former railroad official (now in construction industry) called the writer's attention to the spirit of apathy existing in the railroad ranks, in marked contrast to the loyalty and pride of organizations of ten or fifteen years ago.

There can be no prosperity without production. The worker must know that low production with large profits does not make for the prosperity of either capital or labor. In our American industry the successful method is rapid and economical production with a small margin of profit. With the worker there must be less idleness and more production.

Public works and railroad contractors have been able in times past to maintain a regular organization, and could do this becuse of the loyalty and co-operation of their employees. In selling their services to their clients the knowledge of this loyalty and co-operation enabled the contractor to enter into an agreement which he knew he could carry out satisfactorily.

Overspecialization a Detriment

Overspecialization of workers has lately hampered the efforts of these contractors; in consequence there has been no benefit to the employer or to the employee. A rapid turnover of labor because of restlessness of employees has added a very heavy expense to construction, on account of the necessity for a constant reorganization of forces due to this unsteadiness on the part of the worker. It would be well for our members to give more of their attention to this evil, and through co-operation with the Association to seek the elimination of this trouble. The worker must also realize that any effort of the employer to stimulate business through economical production is largely to his advantage, in that it will lessen the amount of idleness which we now have in the building industry.—*The Constructor.*

THE TROUBLESOME PROBLEM OF EXTRA WORK—HOW CONDUCTED AND HOW PAID FOR

By the Standardization Committee, K. H. Pratt, *Chairman, General Contractors' Association of Cleveland*

It has been common experience that the matter of charges and credits for additions to or omissions from plans and specifications for a building project are apt to be a source of controversy between the contractor and owner. Unfortunately, it is very seldom the case that a building is put up without some alterations or modification of the plans, which involve a change in the contract price or the work, and there has been no standard practice in adjusting these differences, so far as we can determine. Therefore, your Committee has gone into the problem of trying to determine fair and equitable relations between contractor and owner where such changes are involved, and has formulated certain very definite recommendations.

Alterations or deviations from the original plans and spectications are a source of expense to the contractor, whether the change be in the nature of an omission or in the nature of an addition. All such changes are apt to interfere with the progress of the work, delay the completion of the work as a whole, cause the contractor additional expense on other work in progress on the job which is affected by the changes, and make demands not only on the contractor's field organization but upon his main office organization out of proportion to the amount of work involved. It is evident that there should be a charge to the owner for the services

so rendered, regardless of whether the work is an addition or omission.

Recommendations

This leads to our first set of recommendations:

a. That all charges for additional work take into account the contractor's overhead in addition to the actual cost of the work and the contractor's profit.

b. That all omissions take the same items into acount, and, to accompish this end, we recommend that allowances for omissions be based upon the actual estimated cost of the work without any allowances for the contractor's estimated profit on the operation involved—it being our thought that such estimated profit should be retained by the contractor to compensate him for the additional expense involved in deviating from the original plans.

c. Accurate written records should be kept and all transactions relative to changes should be confirmed in writing between the contractor and owner.

Interpreting Plans and Specifications

Where work is considered by the contractor as additional to his contract price, such additional work may arise from a disagreement as to the interpretation of the plans and specifications, or it may be an addition to the plans acknowledged by the owner.

Where work is considered by the contractor as additional to his contract price, such additional work may arise from a disagreement as to the interpretation of the plans and specifications, or it may be an addition to the plans acknowledged by the owner.

We recommend:

1. That all contractors prohibit their field organization from proceeding with any additional work to the contract, whether acknowledged or not by the owner, without specific instructions from the contractor's main office or his authorized representative.

2. Where the contractor proceeds with work in dispute as to whether or not it is extra, it should be a matter of written record from the contractor to the owner as to the contentions involved and as to the basis on which the work is being done.

3. Where there is no dispute involved, the work should only be done on the written authorization of the owner or his agent.

4. An accurate record of all labor and material used in connection with extra work should be kept on a separate extra work report sheet, with prpvisions made thereon for the signature of the duty authorized agent of the owner directing the work to be done, and charged to the owner.

Lump Sum of Time and Material

Where work is performed additional to the contract, it may be handled in two ways. Either on a basis of an agreed lump sum charge or on a basis of time and material plus a percentage for contractor's profit.

We highly recommend that all work which can be intelligently priced and handled on a lump sum basis be so handled, and that the lump sum be agreed upon prior to the execution of the work, with proper acknowledgement of the work and amount involved.

Where it is impossible either through the nature of the work on the time element to definitely arrive at a lump sum price, we recommend that the work be performed on a time and material basis plus percentage for contractor's profit.

Charges for Extra Work

In the absence of any denite agreement in the contract, we recommend that charges for extra work performed on a time and material basis be billed to the owner in accordance with the following:

General Items of Cost

The general contractor shall be reimbursed in the manner hereinafter described for such of the actual expenditures in the performance of the work as are included in the following items:

a. Wages of workmen, material supplies, tools and appliances (as distinguished from machinery and equipment listed hereinafter), and cartage and freight require for the completion of the work in question, either as shown by the revised plans and specifications, or by written instruction, and for the installing equipping, operating and dismantling of temporary works, plant, machinery and equipment, sheds, offices, commissary and hospital.

b. Sub-contractors placed by owner or general contractor for material or labor or both.

c. Rental, or its equivalent, beginning with shipment and concluding with arrival at return shipping point, at the rates set forth in attached schedule, for the general contractor's machinery and equipment, and rental actually paid by the contractor for other machinery and equipment, or parts thereof, as used in the prosecution of the work, cost of loading, unloading, shipping charges to and from the job, and ordinary repairs and replacements during use and shipment for all machinery and equipment. Rental n machinery and equipment in place at average rental and maintenance charge per schedule assigned by Associated General Contractors or general or main contract.

d. Premiums for bonds and fire insurance, fee of Building Trades Employers' Association, expenditures for telegraph and telephone service, expressage, postage, field office supplies, permits, deposits, royalties, and other similar items incidental to the execution of the contract.

e. Salaries of superintendents, foremen, engineers, timekeepers, clerks, expeditors, watchmen, waterboys, and all other employees in the field office of the general contractor to be pro-rated over the total number of workmen's hours daily and the proper proportion of the superintendent's, timekeeper's, watchmen's, waterboy's, etc., time charged to each item of extra work. If any of these men are giving an overdue amount of their time to any or all items of extra work then their exact time given to the extra work is to be charged.

f. Salary allowances proportionate with time actually applied to this work for employees dividing their time between this and other work, transportation and incidental traveling charges to and from the work for the necessary field forces required in the economical and successful prosecution of the work in the procuring of labor, and in expediting production and transportation of materials and equipment, and for other employees or officials of the general contractor actually incurred in connection with this work.

g. Compensation, public liability and contingent insurance on all wages and salaries. We recommend a charge of seven per cent. of the pay-roll to cover these items, together with the uncovered risk.

h. An allowance to compensate the contractor for his overhead expense. We recommend a charge of 10 per cent. on the total cost of work to the contractor to cover this item.

Credits to Owner

The owner shall receive from the general contractor the following credits:

1. Rebates to the amount of 50 per cent. of the original billed price for all lumber and material used in this work and delivered in good and serviceable condition to and accepted by the general contractor.

2. Rebates to the amount of 50 per cent. of the original billed price for all perishable tools and appliances used in the work and upon completion of the contract returned in good and serviceable condition to and accepted by the general contractor.

3. The full returned amount of any refundable deposit made and charged against this work.

To the sum of the items enumerated above, after proper credits have been given, a percentage is to be added for contractor's fee. We recommend a charge of 10 per cent. to cover this item.

Payments for extra work should be made monthly on or before the tenth of the month following the month in which the extra work is performed. Extra work invoices should be paid in full, no percentage on same being retained by owner.

—*Building Age.*

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ARTESIAN WELLS.
Artesian Well Drilling Co., Aramingo and Girard Ave., Phila.
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Weil, J. H., Co. .....1304 Arch St., Phila.

ASBESTOS SHINGLES.
Asbestos Shingle, Slate and Sheathing Co., 2013 Market St., Phila.
Emack, The John D. Co. Otis Bldg., Phila.

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Blue Print Shop.....1520 Sansom St., Phila.
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Robbins, Chas. H. .....1209 Arch St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
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Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

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Ketcham, O. W. .....121 N. 18th St., Phila.

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Atherholt, Samuel T. .....Narberth, Pa.
Mitchell Bros. .....2125 Race St., Phila.

BUILDERS' SUPPLIES.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts.
Magna Sand Co. .....139 S. 3rd St., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

CABINET WORK.
Weiss, George, & Co. .....1211 Mascher St., Phila.

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DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill, Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

CEMENT WORK.
Croyle, Guy .....Merion Station, Pa.
Massiah, Frederick..Juniper and Cypress Sts., Phila.

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Pralatt Equipment Co. .....Drexel Bldg., Phila.

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Pearce Fireproof Co.....1345 Arch St., Phila.

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Woodoleum Mfg. Co. .....133 Arch St., Phila.

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Stewart A. Jellett Co.....1200 Locust St., Phila.

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Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co. ..Harrison Bldg., Phila.
Gibson, Thomas F. .....Franklin Trust Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

DRAWING MATERIALS.
General Reproduction Co.....1518 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

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FENCES.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.
Pettit, Frank, Ornamental Iron Works, 1505 N. Mascher St., Phila.
Potts, Horace T. & Co. ..... 316 N. 3rd St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

FIREPROOFING.
Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co. .....1345 Arch St., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

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Clausen, Wm. H. ....27th and Diamonds Sts., Phila.
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Richardson & Boynton Co.....1332 Arch St., Phila.

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Fleck Bros. .....44 N. 5th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HAULING CONTRACTORS.
Riddle, Wm. H. .....1110 S. 31st St., Phila.

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Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

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Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

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Clausen, Wm. H. .....27th and Diamond St., Phila.
Fitzgerald, J. J., & Co..2nd and Butler Sts., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

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INSURANCE
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Adelhelm & Phillips.....1511 Sansom St., Phila.
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Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

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Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

LIGHT IRON CONSTRUCTION.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works, 1505 N. Mascher St., Phila.

LUMBER.
Felin, Chas. F., & Co., Old York Road, above Butler St., Phila.
Irwin, James M., & Co. .....976 N. 8th St., Phila.
Ketcham, Howard .....3rd and Girard Ave., Phila.
Kugler, Geo. W., & Sons Co., 915 New Market St., Phila.
Tague, Jas. E., Co. ...10th and Columbia Ave., Phila.

MARBLE MOSAIC.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

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Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co.....1345 Arch St., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

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Pettit, Frank, Ornamental Iron Works, 1505 N. Mascher St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

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Richardson & Boynton Co. .....1332 Arch St., Phila.

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Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

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Chapman Slate Co. .....Bethlehem, Pa.
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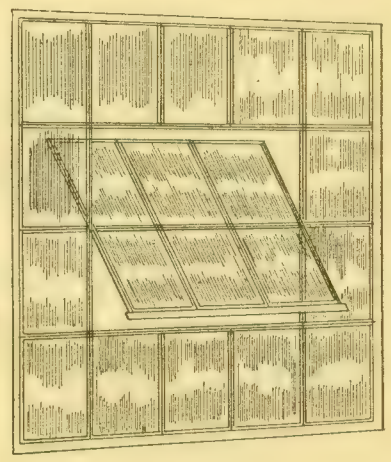
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¶ To be sure you are listed correctly under the classifications you desire, send names, addresses, Bell and Keystone 'phone numbers, and list of products you sell or manufacture, to 826 Perry Building, Philadelphia.

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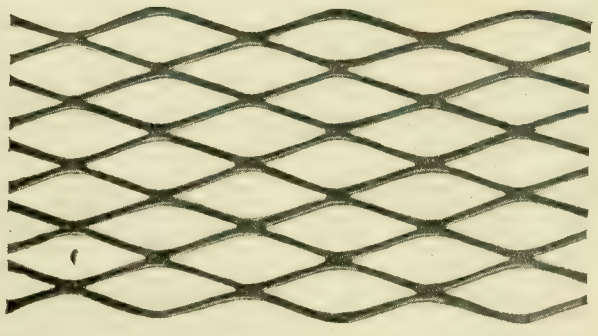


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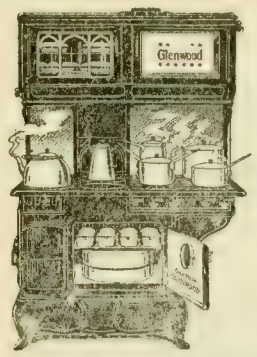
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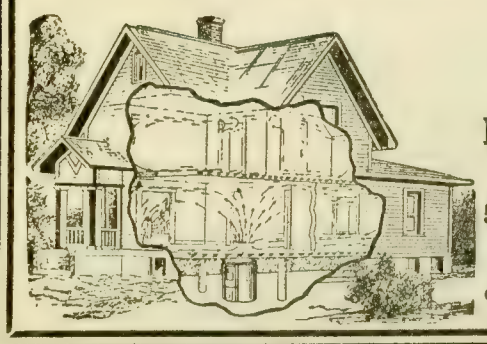
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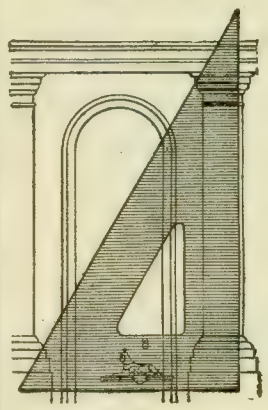
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As The Editor Sees It

SUCCESSFUL CONTRACTING—WHAT IT IS

A Discussion of the Many Factors That Often Mean the Difference Between Profits and Failure

BY L. ENGELMAN

Engineer and Estimator

In making a survey of the last twenty-five years the writer has often asked himself the question: What are the reasons why so many contractors fail in business between the ages of 45 and 55? Some drop out of sight entirely, some die in the poorhouse, and some are thrown on the mercy of their children or near relatives.

It seems strange indeed to learn of a man who started probably as a carpenter contractor or brick contractor, and made a success of his line of business, that he has wound up as a failure after seeming initial success upon launching out into general contracting.

The main causes of failure may be summed up as: 1. Bad management. 2. Lack of education, technical as well as general. 3. Lack of working capital. Before analyzing the various phases of these causes, let us first draw a general perspective picture of the contracting business.

In order to do this in as simple a way as possible, let us compare contracting with other lines of business, which will make the matter plain, inasmuch as the human brain is accustomed, in arriving at a conclusion, to start first of all by comparing.

The manufacturer is in a position to estimate the cost of his products to the hundredth part of a cent. There are very few uncertainties entering his calculations. Given a rod of certain lenth and diameter at a fixed cost, he can estimate to a nicety the number of bolts to be manufactured from this rod; neither rain, nor snow, nor unnecessary waste of time need enter into his calculations. Up-to-date machineries in his shop lessen his trouble, and his check on a man's daily work is complete.

Contractor's Difficulties in Cost Estimating

Compare with this your checking up on the day's work of twenty bricklayers. You cannot tell at the close of a day how many bricks each man laid; and furthermore, even under like conditions the day's work of the bricklayer will greatly vary.

The contractor must reckon with an endless chain of uncertainties, and unless he is a clear and quick thinker the chances are that he may meet disaster. Remember that your mistakes in a building cost you money and cause you trouble. You are not as fortunately situated as a physician who, by a death certificate, may cover up his mistakes.

There are usually two classes of men. One we may call the "thinking class" with an analytical mind, the other the "acting class," the one that either executes the orders of the thinker or acts in a spontaneous manner. Very few men, comparatively speaking, belong to both classes. We of course cannot consider here a certain mass of persons who simply live and hardly have minds of their own.

The contractor managing a business of say several hundred thousand dollars must be his own commanding general and his own general staff, to use, in our case, a military term; and there we find the main stumbling block for so many contractors who were very successful in conducting a small business requiring little work for the general staff, but who, on entering the area of a bigger field met their Waterloo. In some cases it is their own narrow-mindedness and self-deceit which did not allow them to engage the assistance and help of men trained in their respective fields. It is needless to say here that large offices have well trained men at the head of each department.

What Makes a Good Contractor

What are the essential requirements of a successful contractor? He must:

1. Be a master of retails without losing himself in details.

2. Know how to select the right kind

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of help and train the same for his particular needs.

3. Have the caution never to overreach himself in money matters, and be sure that credit will be extended to him.

4. Be a good business manager and financier.

5. Know enough to control field management.

6. Have tact, and education, and be sometimes a well groomed diplomat.

7. Educate himself to be an analyzer of all facts and human nature.

In the aforesaid the contractor's life was considered in a general way only; let us now view it at a closer range and we will have the following classifications as pertaining to his business: 1. Office management. 2. Field management. 3. Ethical side.

Subdivisions of His Work

1. OFFICE MANAGEMENT: This may be subdivided into (1) estimating, (2) purchasing, (3) cost keeping, (4) bookkeeping, (5) financing and (6) dealing with sub-contractors, architects and owners.

Estimating.—The salient points of correct estimating are: 1) exact quantity survey; (2) sound judgment in assigning labor cost on work, taking into consideration cost data on hand; (3) local labor and market conditions; (4) transportation; (5) season of the year; (6) equipment, tools, machinery and lumber on hand; (7) amount of percentage retained; (8) amount of working capital required; (9) responsibility of sub-bidders; (10) construction of building; (11) amount of space available for storage of material; (12) general market condition; (13) general labor condition; (14) clearness or doubtfulness of plans and specifications; (15) overhead and traveling expenses; (16) time limit; (17) liability insurance; (18) site expenses; and (19) reputation gained.

In a short article we cannot go into details and consider fully each point. Only the following, therefore, will be mentioned. If one person only compiles the quantity survey it will be well for him to list his estimate in such a way that he can readily detect any mistakes or omission. Take, for instance, a brick building 300 feet by 100 feet facing east. Figure the quantities of face brick required or each elevation separately and compare east with west elevation, and north with south elevation.

As a rule there should not be much difference between the net areas of either east and west or north and south elevations, provided the building has a symmetrical design. Follow the same principle for concrete and cut stone work, and figure each floor separately. The number of square feet of partition for the third, fourth or fifth floor usually will not vary greatly from the number of square feet required for any other of these floors.

Compare, furthermore, the total cubic yardage required for beams with that of the 2-inch or 2½-inch topping for each floor. Whenever you have trained your mind in this way it is remarkable how quickly you can discover your mistakes, especially when you use a slide rule in your calculations and chance to have made a mistake in pointing off decimals. Follow a certain system in your estimating practice and you will not only lessen the cost of estimating, but you will also make fewer mistakes.

Correct Estimating of Concrete Work

It is absurd and a fallacy to estimate concrete work at one unit price. Estimate the total cubic yardage required for say a 1-3-5 mixture; figure the cost of cement, sand and stone or gravel for this particular mix, and then add the cost of mixing and pouring. This cost may be 90 cents for a certain portion, or $1.25 for another portion.

It is equally absurd to use only one unit price per thousand for brick, regardless of whether you have an 8-inch or a 16-inch wall. Estimating labor cost requires first of all a thorough knowledge of practical construction.

The required time to complete a building is determined to a certain extent by whether the structure is to be a wall bearing type or one of skeleton construction. The time is also dependent on the available supply of mechanics, laborers, material and transporation facilities.

The fallacy of estimating the labor for millwork by the loose method of figuring it as 30, 40, or 50 per cent. of the amount of the sub-bid on millwork is plainly shown in the following example;

Contractor A has a sub-bid for millwork for $50,000 and estimates the cost of erecting the same by the correct method. His account stands as follows: $50,000 plus $15,000 for labor equals $65,000, total. Contractor B has a sub-bid for millwork for $47,000, and he estimates the labor cost at 40 per cent. His account stands as follows: $47,000 plus $18,800 equals $65,800, total.

A good estimator will consider not only labor and material costs but also present and future economic conditions.

Mere Bookkeeping Is Insufficient

Purchasing.—Purchasing requires a keen judgment. A good buyer may turn a "losing" job into a "winning" one. Financial management and purchasing are very closely interwoven, and as the

(Continued on page 785)

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Residence and Garage, Sedgwick street and Lincoln Drive, Philadelphia. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, B. H. Busksbaum, 723 Walnut street, Philadelphia. Stone, hollow tile and plaster, 2½ stories, 21½x58 feet, wing 32x20 feet, garage, 1 story, 20x22 feet, slate roof, hardwood floors, hot water heating, electric light, cement work. Architect taking bids due December 11th.

Moving Picture Theatre, Twenty-eighth and Reed streets, Philadelphia. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, castone and steel, 1 story, 60x146 feet, slag roof, cement floors, steam heat, electric light, tile work. Owners taking sub-bids.

Church and Sunday School (ext.), Limekiln Pike, Chestnut Hill. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Covenant Presbyterian Church, on premises. Stone, 40x30 feet, slate roof, pine floors (heating and lighting extensions). Architect will be ready for bids in ten days.

Apartment, 1403-05 North Fifteenth street, Philadelphia, $35,000. Architect, Herman H. Kline, 717 Bulletin Building, Philadelphia. Owner, H. Beckerman, 715 Passyunk avenue, Philadelphia. Brick, 3 stories, 40x35 feet, 16x36 feet, 13x66 feet, slag roof, hot water heat, electric light, hardwood and pine floors, tile work, metal lath. Owner will build.

Church and Parsonage, Twenty-second street, between Nassau and Bolton streets. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owners, Miller Memorial Baptist Church, care of Rev. Wilkens E. Jones, 2107 Master street, Philadelphia. Stone, 1 and 2 stories, size of lot 80x95 feet. Preliminary plans in progress. Details undecided.

Residences (45) and Stores, Woodlawn avenue, Ardleigh, Matthews and Blackemore streets, Germantown, Philadelphia. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, Simon Kaplan, 243 South Sixty-second street, Philadelphia. Brick, 2 stories, 16¼x36 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work, hollow metal skylights, cement work, metal ceilings, plate glass, gas heaters, steel work. Plans in progress.

Playground, Ann and Cambria streets, Philadelphia. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Preliminary plans started. Too early for details.

Playground, Frankford avenue and Berks street, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Preliminary plans started. Too early for details.

Playground, Tenth and Lombard streets, Philadelphia. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Preliminary. plans started. Too early for details.

Store, Apartments and Garage (alts. and add.), Thirty-second and Baring streets. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, P. Silverman, 1517 North Twelfth street, Philadelphia. General alterations and additions. Plans complete. Owner is taking sub-bids.

Stores (4) and Rooming House, Southwest Corner Thirty-seventh and Irving streets. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, Jacob Greenspan, 142 South Eleventh street. Brick, 3 stories and basement, 17x67 feet, alterations to old building, entire building stuccoed, slag roof, pine floors, hot water heat, electric light, tile and marble, metal ceilings, plastering, plate glass, metal bars. Owner is taking sub-bids.

Residences (27), Eastburn and Lowber streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Walter V. Ashby, 2640 North Twenty-ninth street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hardwood floors, hot water heating, electric lighting. Owner is taking sub-bids.

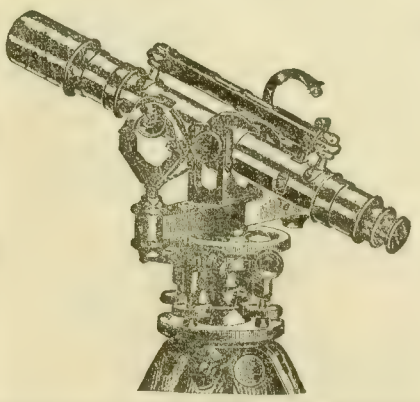
Lodge and Office Building, Southeast Corner Nineteenth and Addison streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Knights of Pythias, B. G. Collier, secretary of Building Committee, 415 South Nineteenth street, Philadelphia. Brick (concrete and steel or terra cotta, fireproofing), 4 stories and basement, 50x150 feet, slag roof, concrete or terra cotta floors, pine floors, metal lath, wire lath, slate treads, ornamental iron work, tin covered doors, vapor heating, electric lighting. Architects taking bids due December 8th.

Museum (add.), Thirty-fourth and Spruce streets, Philadelphia. Architects, Stewardson & Page, Otis Building; Wilson Eyre & McIlvaine, 1003 Spruce street, and Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Trustees of University of Pennsylvania, on premises. Brick, cut stone, steel and concrete, ground floor, main floor and basement, 118x75 feet, tile roof, pine and cement floors, waterproofing, iron stairs, bond, drawn steel doors, rolled steel skylights, marble and terrazzo work, waterproofing. Stewardson & Page, Otis Building, taking bids due December 14th, at 3 P. M.

Oregon Central Office Building (alts.), 1705 and 1707-09 South Broad street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick work, cement work, painting, glazing, carpentry, granite work, slag roof, metal lath, plastering, tile and marble work. Architect taking bids due December 11th.

Post Office Building (alts.), Ninth and Market streets, Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Alterations to first and second floors and lookout gallery. Owners taking bids due December 28th at 3 P. M. Plans and specifications may be secured from Custodian of Site.

Garage, 907-09-11 North Watts street, Philadelphia. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owner, Louis J. Kolb, Tenth and Reed streets, Philadelphia. Brick and steel, 1 story, 80x56 feet, slag roof, cement floors, hollow metal skylights, rolled steel sash, electric lighting, steam heating, demolition. Architect taking bids due December 8th.



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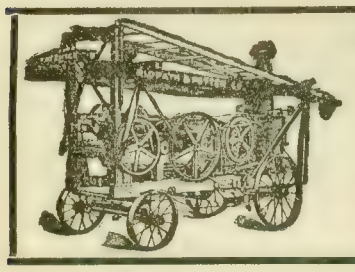
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Garage, 4527 Pine street, Philadelphia. Architect, private plans. Owner, Henry D. Dagit, 34 South Seventeenth street, Philadelphia. Stone, 1 story, 16x25 feet, slag roof, cement floor, electric light. Architect taking bids and sub-bids due December 9th.

Building (alts. and add.), 419 South Fifth street. Architect, A. H. Mueller, 901 Walnut street, Philadelphia. Owner, M. Solomon, care of architect. Plastering, painting, brick work, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work, marble work, plumbing, carpentry, mill work, metal ceilings, plate glass, copper bars. Architect taking bids due as soon as possible.

Junior High School, East Washington lane and Musgrave street. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, reinforced concrete, granite, cut stone and steel, 3 stories and basement, 183x290 feet, composition and asbestos shingle roof, mastic asphalt floors, metal lath, metal ceilings, waterproofing, iron work, bond, hollow metal doors, rolled steel sash, tile, marble and terrazzo work (heating, ventilating, plumbing and electric work separate bids). Owners taking bids due December 7th.

Building (alts.), 155 North Fifteenth street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, Eugene Townsend, Morris Building, Philadelphia. New bulks, brick work, plate glass, painting, marble work. Architect taking bids due as soon as possible.

Apartments (6), Stores (2), and Garage (alts. and add.), Thirty-second and Baring streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, P. Silverman, 1517 North Twelfth street, Philadelphia. Brick and stone, 3 stories, 17x24 feet and 19x24 feet, cement work, slag and tin roof, pine and concrete floors, mineral stucco, metal ceilings, iron work, carpentry, mill work, hollow metal skylights, demolition (heating, plumbing, electric work, plastering and painting reserved). Owner taking bids due as soon as possible.

Residences (4), East side Cottage street, North of Granite, $18,300. Architect, private plans. Owners, George R. Osborne & Son, 5014 Saul street, Philadelphia. Brick, 2 stories, 15x30 feet, 12x9 feet and 16x39 feet, slag roof, oak and pine floors, electric light. Owner will build.

Residence (alts.), 6029 York road, Philadelphia, $7,000. Architect, private plans. Owner, John Janke, 6295 North Broad street, Philadelphia. Carpentry, mill work, painting, glazing, plastering, hardware, tile work, electric work. Owner will build.

Shelter over Coal Pocket, West side Ninth street, North of Berks street, Philadelphia, $12,000. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets. Concrete work, carpentry, mill work. Owner will build.

Store, Residence and Garage, Northwest Corner Fifty-fourth and Upland Way, $7,000. **Residences and Garages (23),** Fifty-fourth and Upland Way, $141,000. Owner, J. Korman, 5020 Rosehill street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, oak, pine and cement floors, hot water heat, electric light. Owner will build.

Residences and Garages (5), Montgomery avenue, Fifty-fourth street and Upland Way, $37,000. Architect, private plans. Owners, Meyer & Gussman, 6107 Pine street, Philadelphia. Brick, 2 stories, various sizes, hot water heat, electric light, oak, pine and cement floors. Owners will build.

Stores and Residences (13), Sixty-second & Market streets, Philadelphia, $94,000. Architect, private plans. Owner, Sol Hopkins, Sixtieth and Pine streets, Philadelphia. Brick, 3 stories, various dimensions, slag roof, oak and pine floors, electric lighting. Owner will build.

Residences (17), Duncannon, Marvine, Eleventh and Twelfth streets, $133,000. Architect, private plans. Owner, Nicholas Beisugel, Tenth street below Nedro. Brick, 2 stories, various dimensions, slag roof, oak and pine floors, hot water heating, electric lighting. Owner will build.

Garage, 1824-26-28 Germantown avenue, Philadelphia, $30,000. Architect, private plans. Owner, Victor Schwartz, 820 South Fifth street, Philadelphia. Brick, 2 stories, 44x151 feet, slag roof, hot water heating, electric lighting, cement floors. Owner will build.

Warehouse, South side Sedgley avenue, West of Third street, $7,500. Architect, private plans. Owners, Pecora Printing Co., Fourth and Sedgley avenue, Philadelphia. Brick, 1 story, 32x100 feet, slag roof, electric lighting. Owners will build.

Dyeing Shed, Northeast Corner Devereaux and Langdon streets, $8,000. Architect, private plans. Owners, H. M. & E. B. Siner, Church and Tacony streets. Frame, 1 story, 71x138 feet, electric lighting. Owner will build.

Residence, South side Summer avenue, East of Ridge avenue, $4,200. Architect, private plans. Owner, George M. Robinson, 632 Summitt avenue, Philadelphia. Frame, 2 stories, 22x30 feet, shingle roof, electric lighting. Owner will build.

Garage, East side Sherman street, South of Sedgwick street, $2,500. Architect, private plans. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Stone, 1 story, 21x89 feet, slate roof, cement floors, electric lighting. Owner will build.

Disston Recreation Centre, Longshore and Dittman streets. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Board of Recreation, Bureau of Public Welfare, 595 City Hall, Philadelphia. Excavation, surfacing, painting, setting of wall, concrete platform. Lowest bidders: Curtis Brothers, Tacony, Philadelphia, $5,800; Elkins Paving Co., 529 Morris street, Philadelphia, $9,908.

Sewers, Philadelphia. Owners, City of Philadelphia, Department of Public Works, City Hall, Philadelphia. The following were low bidders on sewers opened November 29th: Schedule B, intercepting sewer: A. Joffola, 1203 Tree street, Philadelphia, $43,586.09. Schedule C, water piping Northeast Sewerage Plant: Roberts Filter Co., Rhawn and Tacawanda streets, $101,900. Schedule D, metal railings and stairs at sewerage plant: George B. Clopp, 3717 Filbert street, $33,104.28. Schedule E, extensions to retaining walls: J. J. McHugh, 1716 Race street, Philadelphia, $1,014.75. Branch sewers: Abbottsford avenue, Wissahickon avenue to McKean street, $14,657.50; Louden street, "A" street to Ella street, $1,529.78; E. Pascuzzi, Lincoln Building, Philadelphia. American street, Luzerne street to Rising Sun avenue, $14,759.65; Atlantic street, Kensington avenue to K street, $2,801.70; Kingston street, F to G streets, $2,554.25; Sixty-fifth avenue, Limekiln pike and Ogontz avenue, $7,756.85; Venango street, F to G street, $2,759.; Ogontz avenue, Haines street to Pittville street, $3,400; E. Leva, 3851 North Tenth street, Philadelphia. Arnold street, Midvale avenue to end, $3,690; Jos. Moss, 1052 Wakeling street, Philadelphia. Ellet street, McCallum street to Greene street, $6,547.80; Ogontz avenue, Sixty-seventh avenue to Haines street, $4,765.60; Washington lane, Morton to Ross street, $22,050.40; E. T. Bennis, 641 East Chelten avenue, Philadelphia. Erie avenue, B to Front street, $7,033.95 Farson street, Viola street to Leidy street, $1,363.20; Fifty-fourth street, Lebanon avenue to Berks street, $2,555.28; Fifty-fifth street, Warrington avenue to Springfield avenue, $16,274.97; McKean street, Swanson street to Delaware avenue, $8,293.40; Oxford avenue, Pratt street to Sanger street, $8,065.30; Sansom street, Forty-ninth street to Fiftieth street, $2,476; William H. Garson, 5033 Brown street, Philadelphia. Haines street, Ogontz avenue to Limekiln pike, $1,020; Haines street, Chew to Ardleigh street, $13,558.35; Howard street, Mt. Airy street to end, $4,431.99; McCallum street, Hortter street to Lincoln Drive, $12,015; J. Joseph McHugh, 1716 Race street, Philadelphia. Haines street, Anderson street to Ardleigh street, $1,408.90; Jackson street, Knorr street to Longshore street, $3,267.33; Jeffola & Zenneri, 1203 Tree street, Philadelphia. Salmon street, Venango street to end, $4,062; Stockley street, Westmoreland street to Rising Sun avenue, $5,898; Sity-seventh avenue, Broad street to Fifteenth street, $6,485.15; Torresdale avenue, Worrell street to Salem street, $1,150.80; Walkr street, Benner street to Devereaux street, $4,598.10; Watts street, Mifflin street to end, $2,227.98; Joseph Lombardi, Lincoln Building, Philadelphia. York road, Stenton avenue to Godfrey street, $28,402.25; Robert Lombardi, Lincoln Building, Philadelphia.

Miscellaneous Work, City of Philadelphia. Architect, private plans. Owners, City of Philadelphia, Frank H. Caven, Director, 216 City Hall. Fire house (alts.), 826 New Market street, Philadelphia (No. 21). Fire house No. 6, 1118 East Montgomery avenue, Philadelphia. Improving plot bounded by curblines of Glenwood avenue, Huntingdon, Margle and Nineteenth streets (Twenty-fifth Ward, removing asphalt and granite block paving and blue stone curb, resurfacing asphalt where required, adjusting and paving with granite block and construction of new armored concrete street curb, grading, soil treatment, seeding, sodding and planting trees. Room 719, City Hall, (1) new window. Installation of electrical work in connection to alterations to metal book cases in Law Library, Room 600, City Hall. Owners taking bids due December 13th at noon. Plans may be secured from Room 117, City Hall. Deposit of $5.00 with each set.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 28, 1922. Sealed Proposals will be opened in this office at 3 P. M., December 28, 1922, for remodeling on first and second floors, lookout gallery, etc., in the United States Post Office and Court House at Philadelphia, Pa. Drawing and specifications may be obtained from the Custodian at Philadelphia, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 29, 1922. Sealed Proposals will be opened in this office at 3 P. M., December 27, 1922, for the construction, including mechanical equipment, of the United States Post Office, at Leesburg, Va. Drawings and specifications may be obtained from the Custodian of the site at Leesburg, Va., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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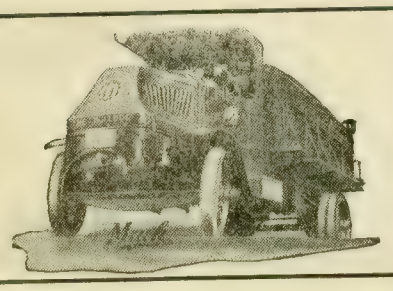
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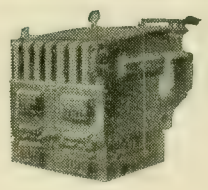
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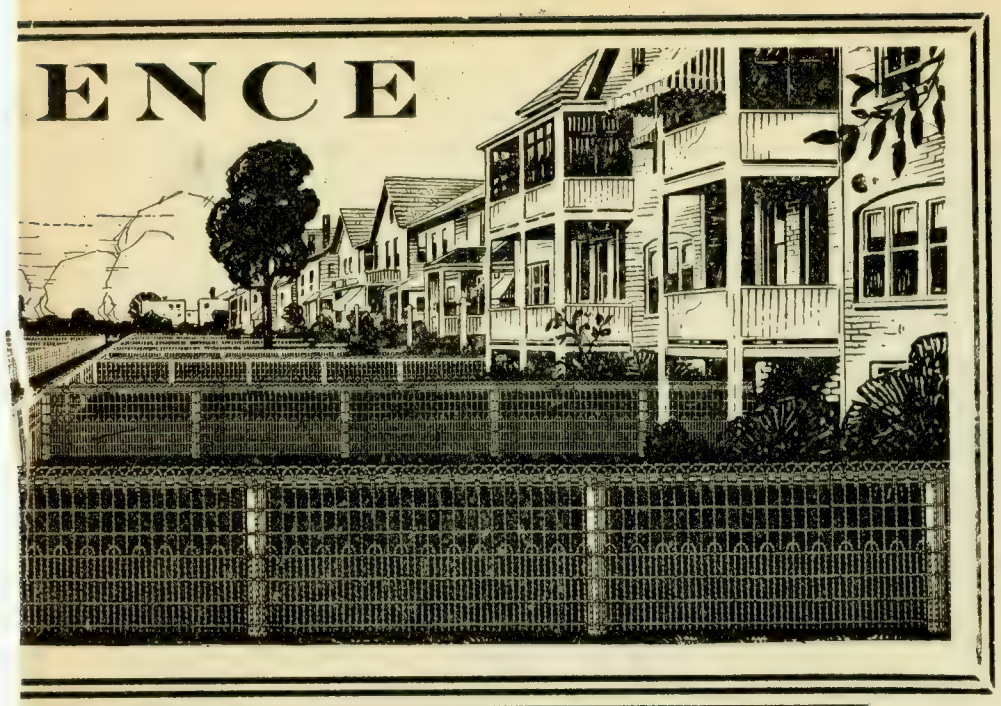
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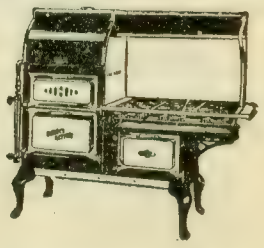
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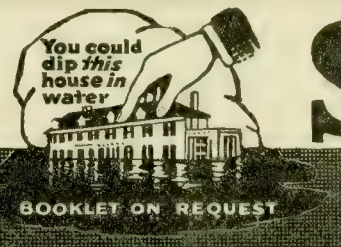
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, Southwest Corner Twenty-third and Ionic streets, Philadelphia, $14,000. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owners, Estate of F. A. Poth, Thirty-first and Jefferson streets. Brick, steel and concrete, 1 story, 68x70 feet, slag roof, cement floors, roof ventilators, hollow metal skylights, steam heat, electric lighting, mill work. Contract awarded to E. H. Keefer & Son, 1321 Rodman street.

Store and Residence (alts.), Fifty-fifth and Spruce streets, $7,000. Architect, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Mrs. Bessie Wolfe, on premises. Brick, 2 stories, 19x51 feet, slag roof, pine floors, metal lath, plate glass, metal bulks, blue stone, tile work, electric lighting, hot water heating. Contract awarded to W. O. Springer, 2004 Naudain street, Philadelphia.

Residence, 2520-22 North Broad street, Philadelphia, $24,000. Architect, private plans. Owner, Samuel Flaum, on premises. Brick, 2 stories, 52x46 feet, slag roof, hot water heat, electric light, oak and pine floors, tile work. Contract awarded to D. J. McNamee, 1621 North Fifteenth street, Philadelphia.

Store and Office, Southwest Corner Poplar and Edwin streets, $9,000. Architect, private plans. Owner, John L. Gehly, 1718 Poplar street, Philadelphia. Brick, 2 stories, 51x56 feet, slag roof, electric work. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Building (add. and alts.), 1721 Diamond street, $8,000. Architect, private plans. Owner, E. Thornton, 1331 Master street, Philadelphia. Brick, 3 stories, 9x10 feet, slag roof, electric light. Contract awarded to A. Barsky, 1313 South Second street, Philadelphia.

Store (alts.), 237 Market street, Philadelphia, $15,000. Architect, private plans. Owner, N. Block, on premises. Lowering floors, plastering, steam heating, plumbing, metal lath, electric work, tile work. Contract awarded to M. Benjamin, 241 Market street, Philadelphia.

Factory (alts.), North side Moore street, West of Sixth street, $8,000. Architect, private plans. Owners, Cutter Electrical & Mfg. Co., Nineteenth and Hamilton streets. Carpentry, mill work, painting, glazing, plastering, alterations. Contract awarded to John N. Gill Const. Co., 112 South Sixteenth street.

Building (alts. and add.), 247 South Thirteenth street, Philadelphia, $8,000. Architect, private plans. Owner, Robert J. Ward, 208 South Thirteenth street, Philadelphia. Brick, 2 stories, 14x38 feet, slag roof, steam heat, electric light. Contract awarded to Hugh J. Fulton, 5026 Locust street, Philadelphia.

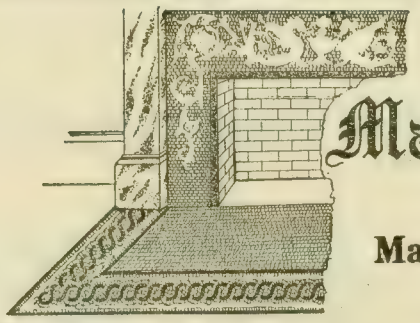
Apartment and Store (alts.), 624 North Siteenth street, $6,600. Architect, private plans. Owner, S. Gobes, 1531 Vine street, Philadelphia. Carpentry, mill work, painting, glazing, plastering. Contract awarded to Saidel Const. Co., 5749 Walnut street.

Residence and Store (add. and alts.), 7288 Woodland avenue, $6,000. Architect, private plans. Owner, Charles Soechner, 7284 Woodland avenue, Philadelphia. Carpentry, mill work, painting, glazing, plastering. Contract awarded to Herman Geithner, 1322 North Twenty-eighth street.

Residence, 543 Carpenter street, Philadelphia, $5,800. Architect, private plans. Owner, J. Hale, care of builder. Brick, 2 stories, 16x47 feet, slag roof, electric lighting. Contract awarded to John Roman, 414 East Bringhurst street, Philadelphia.

Store and Residence, 3405 Walnut street, Philadelphia, $3,500. Architect, private plans. Owner, J. M. Powell, 823 South street, Philadelphia. Brick, 1 story, 20x7 feet, tin roof, pine floors. Contract awarded to H. M. Shandles, 1211 Chestnut street.

Residence, 4458 Almond street, Philadel-



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phia, $4,250. Architect, private plans. Owner, W. Kowalewski, 4450 Almond street, Philadelphia. Brick, 2 stories, 16x43 feet, slag roof, hot air heating, electric lighting. Contract awarded to Charles Doerr, 5350 Tacony street, Philadelphia.

Building (alts. and add.), 713 South Fifty-second street, Philadelphia, $3,000. Architect, private plans. Owner, Charles C. Enberg, 311 South Fifty-first street, Philadelphia. General alterations and additions. Contract awarded to T. D. Steinmetz, Yeadon, Pa.

Building (alts.), 1402 West Erie avenue, Philadelphia, $3,500. Architect, private plans. Owners, Waverly A. E. Co., on premises. General alterations. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Shop (add.), 859 Church street, Germantown, Philadelphia, $2,000. Architect, private plans. Owner, Albert Wackerman, on premises. Brick, 2 stories, 20x50 feet, slag roof, pine floors, electric light. Contract awarded to L. D. Stites, 126 Herman street, Philadelphia.

Garage, 1208-10 Shackamaxon street, Philadelphia, $2,870. Architect, private plans. Owner, Mrs. Rose Hartman, 1209 Frankford avenue, Philadelphia. Brick, 1 story, 22x46 feet, slag roof, cement floors, electric work. Contract awarded to James T. Murphy, 1813 North Second street.

Garage, 4841 North Sixth street, Philadelphia, $2,250. Architect, private plans. Owner, Sarah Slifer, 4835 North Sixth street, Philadelphia. Brick, 1 story, 16x58 feet, slag roof, cement floors. Contract awarded to Paul Postell, Quakertown, Pa.

Store, North side Auburn street, West of Belgrade, $2,100. Architect, private plans. Owners, Belgrade Wagon Works, Belgrade and Cambria streets. Brick, 1 story 20x40 feet, slag roof, pine floors. Contract awarded to A. Earl Barnes, 2044 East Clementine street.

Shop, North side Eastwick avenue, West of Eighty-second street, $2,000. Architect, private plans. Owner, I. Kaplan, Eighty-fourth and Lyons avenue, Philadelphia. Brick, 1 story, 28x60 feet, slag roof, pine floors. Contract awarded to Fred Paulson, Island road and Dicks avenue.

Residence (alts.), 4126 Chester avenue, Philadelphia, $2,000. Architect, private plans. Owner, Margaret Doyle, 912 Christian street, Philadelphia. General alterations. Contract awarded to N. Rozenski, 520 Dickinson street, Philadelphia.

Steel Towers, Delaware River Bridge, $1,387,757. Architect, private plans. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Contract awarded to Bethlehem Steel Co., Morris Building, Philadelphia.

Bank Building (alts.), Broad and Louden streets, Philadelphia. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Logan Bank & Trust Co., W. G. Weller, 1338 Ruscomb street. Brick and cut stone, 1 story, 18x30 feet, slag roof, pine and cement floors, metal lath, demolition, tile and marble work, bond, iron work (heating, lighting and plumbing reserved). Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

Manufacturing Building (add.), 1536-40 North Fifth street, $25,000. Architect, private plans. Owners, James H. Billington & Co., 1539 North Randolph street. Brick, third story add., 48x94 feet, slag roof, steel sash. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Tunnel (alts.), North side Allegheny avenue, East of Fox, $8,000. Architect, private plans. Owners, Alfred Wolstenholme & Son, Twenty-fourth and Allegheny avenue. Reinforced concrete, 1 story, 7½x27 feet. Contract awarded to Turner Const. Co., 1713 Sansom street.

Residence, Northeast Corner Shelmire and Alma streets, Philadelphia, $4,100. Architect, private plans. Owner, Harry Smith, 4714 Salmon street, Philadelphia. Frame, 2 stories, 22x22 feet, hot air heat, electric light. Contract awarded to William Garrison, 1338 North Tenth street, Philadelphia.

Building (add.), 919 Winter street, Philadelphia, $2,500. Architect, private plans. Owner, Edith I. Evans, 1609 Harrison street, Philadelphia. Brick, 2 stories, 26x38 feet, slag roof, pine floors. Contract awarded to George H. Evans, 105 North Thirteenth street, Philadelphia.

Residences (3), Wissahickon avenue and Park Lane, $32,000. Architect, private plans. Owner, Agnes Cousins, 4935 Pulaski avenue, Philadelphia. Brick, 3 stories, 25x44 feet, slag roof, hot water heating, electric lighting, oak and pine floors, tile work. Louis A. Blaul, 5613 Germantown avenue, Philadelphia, will build.

PENNSYLVANIA Construction News

Residence, Cynwyd, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, name withheld. Stone and stucco, 2½ stories, 37x25 feet, shingle roof, hardwood and pine floors, hot water heating, electric lighting, tile and marble work. Plans in progress.

Residence, Bryn Mawr avenue near Levering Mill Road, Cynwyd, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, Edward B. Cregier, Cynwyd, Pa. Frame and stucco, 2½ stories, 22x32 feet, shingle roof, pine floors, pipeless heater, electric lighting. Architect taking bids due December 9th.

Residence (alts. and add.) to Stores and Apartments, Darby, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, name withheld. Brick, 2 stories, 20x32 feet, slag and canvas roof (heating, plumbing and lighting reserved). Plans in progress. Will be ready for bids in one week.

Bank Building, Bethlehem, Pa., $200,000. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Lehigh Valley National Bank, W. E. Doster, president, Bethlehem, Pa. Brick, stone and concrete, 60x100 feet. Plans in progress.

Residence, Narberth, Pa. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Carl E. Dodds, care of architect. Stone and frame, 2½ stories, 24x35 feet. Plans in progress. Too early for details.

Fire House, Berwyn, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owners, Berwyn Fire Co., Henry Fielden, chairman Building Committee, Berwyn Theatre Building, Berwyn, Pa. Concrete block or hollow tile, 2 stories, 20x80 feet. Plans in progress. Too early for details.

Heating Plant and Laundry, Abington, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners, Abington Memorial Hospital, care of J. B. Winder, on premises. Brick, 2 stories, 29x66 feet, composition roof, concrete floors, high pressure steam heating, electric lighting. Architects will take bids in one week.

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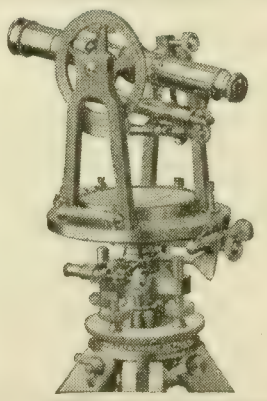
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Harrisburg. Architects, Laurie-Green & Co., 222 Market street, Harrisburg. Owners, Pennsylvania State Chamber of Commerce, G. F. Foss, secretary, Telegraph Building, Harrisburg, Pa. Stone, 6 stories, 29x95 feet. Sketches in progress.

School (high) (add.), Mahanoy City, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Mahanoy Township School District, Frank B. Patterson, St. Nicholas, Pa. Frame, 2 stories, 40x60 feet. Plans completed in 1920. Will be ready for bids in about six weeks.

Residences (6), Tamaqua, Pa. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owner, Samuel Losos, Tamaqua, Pa. Hollow tile and stucco, 2 stories, 15x42 feet. Preliminary plans in progress. Bids will be taken in 1923.

Residence, Rydal, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, C. M. Cadwalader, care of architect. Stone, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress. Architect will take bids in ten days.

Residences (18), Collingdale, Pa. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, David S. Fuhrman, Aldan, Pa. Stone, brick and stucco, 2½ stories, 19x29 feet, asbestos shingle roof, pine floors, hot water heating, electric lighting, liktile. Plans drawn. Will take bids in 1923.

Residence, Brookline, Pa., $9,000. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, R. E. Seyler, Drexel Building, Philadelphia. Frame and stucco, 2½ stories, 24x30 feet, roofing undecided, pine floors, hot water heat, electric lighting, tile work. Owner is taking sub-bids.

Church, Columbia, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, Holy Trinity Roman Catholic Church, Rev. P. H. Brueggeman, Columbia, Pa. Stone, 1 story. Sketches drawn.

Garage, rear of 532 Spruce street, Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, William M. Fryermuth, 306 Bingamen street, Reading, Pa. Brick, 1 story, 43x34 feet, concrete foundations, electric work, asbestos shingle and composition roof, structural steel. Owner will build.

Residence, Arvon road, Merion, Pa. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Louis J. Tunis, 1423 Locust street, Philadelphia. Stone, timber and stucco, 2½ stories, 24x53 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Owner is taking sub-bids due as soon as possible.

Stores and Apartments (2), Burmont road and Berry avenue, Drexel Hill, Pa. Architect, private plans. Owner, name withheld. Brick, 2 stories, 20x50 feet, slag roof, pine floors, hot water heating, electric lighting, tile work. Bowden Const. Co., 1935 Chestnut street, Philadelphia, are taking sub-bids due as soon as possible.

Residences (4), Cynwyd, Pa. Architect, private plans. Owners, name withheld. Hollow tile, frame and stucco, 2½ stories, 19x32 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Henry D. Dagit & Son, 34 South Seventeenth street, will build and will take sub-bids in one week.

Armory, Wilkes-Barre, Pa. Architect, Thomas Atherton, Coal Exchange Building, Wilkes-Barre. Owners, State of Pennsylvania, B. W. Demming, secretary, Capitol Building, Harrisburg, Pa. Concrete, brick and steel, 2 stories, 350x500 feet, concrete foundations, electric light, tile, marble and terrazzo work, roof ventilators, skylights. Owners taking bids due December 16th.

Residence, Wallingford, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, Mrs. A. T. Wirz, Wallingford, Pa. Brick, frame and cut stone, 2½ stories, 25x53 feet and 44x29 feet, shingle roof, oak and pine floors, metal lath, iron work, bond, tile work (hot air heating and electric light reserved). Architect taking bids due December 11th.

Residence, Wallingford, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, A. H. Wirz, Chester, Pa. Stone and frame, 2½ stories, 104x30 feet, shingle roof, hardwood floors, hot air heating, electric lighting, tile work. Architect taking bids due December 11th.

Spring Water Bottling Plant, Shawmont, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Keewis Pealty Co., 115 Broadway, New York City. Brick, slow burning, 2 stories, 85x35 feet, composition roof, cement and plank floors, vapor heating, electric lighting. Architects taking bids due December 11th.

Apartment House, Ardmore, Pa. Architects, John Harbeson and Paul P. Cret, Otis Building, Philadelphia. Owner, name withheld. Brick, reinforced concrete, stone and cut stone (terra cotta), 3 stories, 101x101 feet, Barrett roof, oak and pine floors, iron work, bond, tin clad and kalamein doors, tile and marble work, electric lighting (heating and plumbing separate bids). Architects taking bids due December 11th at noon.

Residence and Garage, Winston-Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. A. Kent, Winston-Salem, N. C. Brick and hollow tile, 2½ stories. Architect taking bids due December 27th.

Pennsylvania Contracts Awarded

Warehouse, Johnstown, Pa., $675,000. Engineers, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Johnstown Terminal Co., Johnstown, Pa. Reinforced concrete, brick and steel, 6 stories and basement, 120x250 feet, slag roof, concrete floors, elevators, iron work, waterproofing, cork insulation, rolled steel sash and skylights, steam heating, electric lighting. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Rectory, Collingdale, Pa. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Rev. Otto G. Gromall, rector, Collingdale, Pa. Stone, cut stone and brick, 3 stories, 38x55 feet, Phoenix roof (slate alternate), oak and pine floors, metal lath, iron work, bond, tile and marble work, vapor heating, electric lighting. Contract awarded to McLaughlin & McNally, Eighty-first and Suffolk avenue.

Central Office Building, Hazleton, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick, cut stone and steel, 2 stories and basement, 31x25 feet, slag roof, composition and cement floors, metal lath, demolition, steam heat, electric light, marble work, bond, iron work. Contract awarded to Franklin M. Harris & Co., 1520 Parrish street, Philadelphia.

Residence and Garage, No. 46, Wynnewood, Pa. Architect, Frank R. Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ and 1½ stories, 45x27 feet and 35x24 feet, shingle roof, oak, pine and cement floors, hot water heating, electric lighting. Contract awarded to John E. Kearney, 34 South Seventeenth street, Philadelphia.

Bank and Apartment (alts.), Galitzen, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owners, Citizen's Deposit Bank, Galitzen, Pa. General interior alterations, partitions, tile and pine floors, electric light, tile and marble work, general alterations, window guards. Contract awarded to F. J. Couples, Cresson, Pa.

New Jersey Construction News

Auto Show Room and Office, Atlantic City, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Mrs. Margaret G. Smith, 3426 Atlantic avenue, Atlantic City, N. J. Brick and limestone, 2 stories, 26x100 feet, slag roof, tile and cement floors, hot water heating, electric lighting, tile work, cement work, copper and galvanized iron work, plate glass, art cement, oil burning equipment. Plans completed. Architect will take bids in a few days.

Colony for Feeble Minded (add.), Woodbine, N. J., $20,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Home for Feeble Minded, care of Mr. Thorn, Vineland, N. J. Brick, 1 story, irregular size, slag roof, hardwood floors,

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heating extension, electric lighting. Plans in progress.

Residence, West State street, Trenton, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owners, Norman Keeler, West State street, Trenton, N. J. Brick, stucco, 2½ stories, 20x45 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Stores and Apartment (alts. and add.), Georgia and Atlantic avenues, Atlantic City, N. J. Architects, Barber & Conover, Atlantic City, N. J. Owner, Mondel Krechner, 223 Atlantic avenue, Atlantic City. Brick, 3 stories, 40x50 feet, hardwood floors, electric light, general alterations. Plans in progress.

Apartment, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, H. Huberman, Oriental avenue, Atlantic City, N. J. Brick, 3 stories, 35x65 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Apartment, 1902 Pacific avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Dr. Barbash, on premises. Brick, 3 stories, 30x133 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in two weeks.

Residence, Ventnor, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Hon. Walter E. Edge, 170 South Pennsylvania avenue, Atlantic City. Brick and frame, 2½ stories, 43x103 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile and marble work, elevators. Architect will be ready for bids December 1st.

Garage, Atlantic City, N. J. Architect, Oscar Schmidt, Atlantic City, N. J. Owner, name withheld. Brick, concrete block, wood piling, 1 story, 50x100 feet, slag, steel tress roof, concrete floors, electric light, rolled steel sash, floor hardener. Architect will be ready for bids December 1st.

School, Blue Anchor, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, Horace Angelow, secretary of Board, Blue Anchor, Camden County, N. J. Brick, 1 story, 51x82 feet, asphalt shingle roof, hardwood floors, electric light, skylights, cast stone, waterproofing, dampproofing. Architect ready for bids due December 15th.

School (add.), Winslow, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, Horace Angelow, secretary of Board, Blue Anchor, Camden County, N. J. Frame, 1 story, 39x64 feet, shingle roof, electric lighting, skylights. Architect taking bids due December 15th.

Apartment, Maryland avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Yarmov & Shenkman, Atlantic City, N. J. Brick, 3 stories, 43x71 feet, slag roof, hardwood floors, metal lath, hot water heat, electric light, tile work. Owner will build.

Residence and Office, Atlantic and Virginia avenues, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Dr. T. G. Dunlap, Virginia and Pacific avenues, Atlantic City. Brick, stone, 3 stories, 30x75 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect taking bids due December 8th.

Milk Station, Pennsylvania and Mediterranean avenues, Atlantic City. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Peter Hernig's Sons, Inc., Atlantic City, N. J. Brick and steel, 1 story, 100x93 feet, slag roof, cement and pine floors, metal lath, iron work, bond, copper skylights, electric light, steam heating. Architect taking bids due December 7th.

New Jersey Contracts Awarded

Store and Office (add.), Atlantic avenue, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, William I. Segal, Segal Building, Atlantic City, N. J. Brick, stone, 1 story, 55x140 feet, slag roof, wood floors, hollow tile, electric light, tile and marble work. Contract awarded to Philip G. Hannum, Atlantic City, N. J.

Apartment, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, Ernest Beyer, Jefferson Apartments, Atlantic City. Brick, steel, 4 stories, 40x100 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile and marble work, architectural terra cotta. Contract awarded to F. Molinara, Atlantic City, N. J.

Cottage, Margate, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owner, J. N. Ireland, on premises. Brick, frame, 2½ stories, 57x26 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Smith & Rider, Absecon, N. J.

Residence, Moorestown, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owner, Mrs. M. L. Coles, on premises. Frame, 2 stories, 30x26 feet, shingle roof, hardwood floors, tile work, electric lighting. Contract awarded to Louis King & Son, 219 Union street, Moorestown, N. J.

Hall (fire repairs), Merchantville, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owners, Merchantville Water Co., Merchantville, N. J. General interior and exterior alterations, tin roof, pine floors. Contract awarded to George Sheppard, Merchantville, N. J.

Residences (2), 705 Spruce street, Trenton, N. J., $9,000. Architect, private plans. Owner, Mary Wholey, care of builder. Brick, 2½ stories, 22x44 feet, slate roof, pine floors, electric light. Contract awarded to John Dzialo, 856 Pennsylvania avenue, Trenton.

Miscellaneous Construction News

Highway Work, Dover, Delaware. Owners, State Highway Department, Dover, Delaware. Contract RW-1, wall on Philadelphia Pike, 750 cubic yards excavation, 700 cubic yards recent rubble masonry. Owners taking bids due December 13th. Plans and specifications may be obtained on payment of $10.00. Certified check for 10 per cent. of bid must accompany each proposal.

(Continued from page 776)

vital points of good practice will be considered under financing, there is no need to go into details here. Keep in mind, however, that a "good buy" may nevertheless mean a very poor financial transaction.

Cost Keeping.—It is well known that there is a vast difference between cost keeping and bookkeeping, and it is a regrettable fact that comparatively few builders realize the importance of a sound and accurate cost keeping system. This will demonstrate the value of cost keeping:

Let us assume that 1,000 cubic yards of concrete are required for the basement walls of a certain building. In order to demonstrate great efficiency, the superintendent's report for one quarter of the work completed shows the

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following: Ninety cents labor cost pouring concrete; total cubic yardage, 250 cubic yards, which would be the sum of his daily reports; 324.8 total of barrels of cement used. The contractor, who has estimated 95 cents for labor cost, is fully satisfied with this report of the superintendent, but the up-to-date contractor will demand a carefully prepared analysis.

Let us see what a good system of cost keeping would demonstrate.

One quarter work completed calls for an expenditure of 290 barrels of cement, as we have only 250 cubic yards. The total labor was $252 according to the time sheet, and therefore the unit price per cubic yard of concrete was $1.01 instead of 90 cents as reported by the superintendent. This check also develops the fact that 324.8 barrels of cement have been used, while only 290 should have been used.

Just watch your laborers loading sand or gravel in barrows or carts for concrete on hot days, and you will perhaps notice that when your men become tired they will not load the barrow or carts to the required measure—instead of having a 1-3-5 mix you will pour a 1-2-4 mix. You may say this should not occur under efficient field management. Well, a good many things should not happen in this world, but they "happen" anyhow—even a preacher becomes intoxicated. At any rate, cost keeping will tell you the efficiency of all your men and, at a glance, how many frames your carpenters set in a day, besides the exact cost of all your millwork labor; and, if given some thought, it can be arranged in a very simple manner.

Other Factors in Office Management

Bookkeeping.—Bookkeeping should not be merely an operation of posting debits and credits; it must work in co-operation with the cost keeping. Bookkeeping cost keeping must be the two watchdogs for the builders. It is, however, a common state of affairs to have book keeping show only the amount of bills payable. Correct bookkeeping should be a check on the estimated quantities and a check on preventable loss, such as loss on cement or plaster sacks, and on material left over from jobs.

Bookkeeping should tell the contractor the amount paid out for small tools, repairs on equipment and at the job, office expenses, etc., and other items usually not separated but booked under one general heading.

Financing.—The financial affairs have caused mental agony to many contractors and undermined their health. These troubles take clear vision away from you and cause a steady drain on your nerve power. They are responsible for your losing sight of important items.

There is only one way of getting out of this Scylla and Charybdis. First of all, you have certain important duties toward your family; you must protect it in case of your death. Therefore, put your life and accident insurance in order. If your business requires a larger amount of working capital than you possess, and your banker refuses to furnish you the same, then you must raise the required amount either from your friends or by taking into your business a silent or an active partner. Remember that your stepping stone may be finally your stumbling block.

It is poor financial management to borrow capital at 7 or 8 per cent. interest in order to discount bills. It is poor financial management to buy material on capital borrowed at a high rate of interest if the material won't be paid for by the owner until after six or seven months; to have a burdensome overhead expense; to buy equipment that is either too small or too big; to purchase goods too soon when the market has a Bear tendency, or to postpone purchasing when the market has a Bull tendency.

Your financial affairs must be diagnosed in the same way as the bacteriologist isolates disease germs. Use your mental microscope, make a "culture" of the germs and find the respective antidote. All financial trouble is caused either by lack of working capital or bad management.

Dealing with the Subcontractors, Architects and Owners.—The greatness or deficiency of your character and of your technical education will either help or hinder you in dealings with architects, owners and subcontractors. At any rate, firmness, diplomacy and a thorough knowledge of human nature will be required in almost all cases; many lawsuits could have been avoided if the builder had used good judgment. Remember the rule of the Chinese philosoper, Confucius, "A man that cannot govern himself cannot govern others."

Your future business will greatly depend on what reputation you enjoy among business and professional men.

Activities on the Job

2. FIELD MANAGEMENT: Field management involves consideration of (1) equipment; (2) storage of material; (3) placing of machines, derricks, etc.; (4) laying out a definite work plan; (5) organization and system.

In buying the required equipment you should consider the past, the present and the future. By the "past" is meant what has been your experience, or those of others, with a certain type of machinery? By the "present," Will the machinery you intend to buy be suitable for your purpose? And by the "future," Can you use it in the line of work you intend to follow, and is the machinery well constructed?

Points 2, 3, 4 and 5 must be considered in relation to local conditions, types of structure, market conditions and the season of the year at which the new building is to be started. Suppose you had a contract for a group of buildings of which two or more were of smaller size than the balance, and building operations were to start in July. Maybe in this case it would be best to lay out a plan with the intention of getting the roofs on the smaller buildings by fall, thus enabling you to work all through the winter.

Unfair Practices

3. ETHICAL SIDE: Some look upon the contractor as a "roughneck," a "cheater," or the personification of dishonesty." It is true that some deserve this description; however, it must not be overlooked that in many instances the contractor is driven to dishonesty. Suppose the contractor receives the contract for a certain building, and the architect, who is usually the sole interpretor of the plans and specifications, rules that a certain item should be furnished in a more expensive material than that shown on the plans, or it may be he has overlooked certain items and compels the contractor to furnish them, referring him to the specifications, of which one paragraph reads, "The intent of these specifications is to furnish all material complete for the structure, and any omissions from the drawings or specifications shall be furnished by this contractor whether called for or not."

Perhaps some readers think that this reference is made to second or third class architects. Sorry to state, the quotation was taken from a set of specifications prepared by a "licensed" architect, and the unlucky builder must console himself with the reflection that the last treatment he will receive in this world will be from a "licensed" embalmer.

That the builder is in the business to make money is something fully justifiable—even the professional man is quite often nothing but a slave of god Mammon, and one cannot expect charity in money matters even from a hosiptal. But money alone must not be the builder's whole aim in life. He must work for a reputation, not only for himself but also for his family and for his calling. Suppose you had built a public building in your home town in a very flimsy way, and that after you were dead and gone your children had to feel ashamed of your acts.

It must be admitted that the master builders of the ancient and middle ages were working for a reputation and were inspired by lofty ideas. Follow the his-

tory of the Egyptians, Persians, Greeks, Romans, Moors, and the builders of the Gothic cathedrals, and you must admit that they have build monuments which we still admire.

The pride of the old Moorish builders is forcibly expressed in their saying: "Quien no ha visto Granada, no ha visto nada." (He who has not seen Granada has seen nothing.)

Putting Ideals Into the Work

The days of Michael Angelo are passed, and architecture and building are now two distinct occupations; but nevertheless the builder of our present day has entered a new field in which he plays an important role, and that is our economic life.

There is no wish here to preach Idealism, since contracting is Realism personified; but unless we combine the teaching of Aristotle with that of Plato and live accordingly, our lives will be aimless, and this leads us to another cause of business failures in the contracting field; namely, mental dullness instead of new inspirations.

The purchase of either too small or unsuitable machines for a certain job, or wrong placing of the machines, may mean considerable loss of money and time. While usually a central plant is the most economical one, it may sometimes be more economical to use one or more smaller ones in remote sections. A practical example will illustrate this assertion very plainly.

A contractor finished a big concrete job with the exception of a small building containing 195 cubic yards of concrete and situated several hundred feet from the main part. He decided to move his big plant over to the place where the small building was to be erected, and it took two days to move and set up the machinery. This was in December.

On the third day it turned very cold and snowed for one week. In this case it would have been cheaper to use a small mixer and wheel all concrete, since plenty of common laborers could be hired for 25 cents an hour, while the cost of setting up the big plant was $175; and since, above all, the contractor could have finished his job in two days. Field management requires deep thinking. Don't jump at conclusions or act hastily.

Shifting your gang from one place to another more remote—leaving small details unfinished—is a wasteful act. Just leave, say, a few unfinished concrete window sills in an otherwise completed portion of a building, and you will find that these few sills cost you a lot of money.

Some Things to Remember

Always keep in mind: 1. That the more quickly your building is completed, the more money you will make. 2. To prepare in spring for the winter months. 3. That unnecessary shifting of scaffolding and labor gangs cost money. 4. That a gravity system is cheaper than manual labor. 5. That any machinery that is not in use is losing you money. 6. To practice construction economy in all your acts. 7. To get the roof on your building as quickly as possible and start your plastering, marble and terrazzo work, and the placing of hardware and millwork, whenever one part of your building is ready for this work.

Field management is the determining factor as to whether the contractor will make money on his job or not. Organization in the fullest and truest meaning must reign everywhere, and unless the superintendent is an organizer, loss or failure will be the result. The elimination of waste alone will not be sufficient.

On a big concrete job the contractor may lose several thousand dollars on form work alone. It is a general occurrence for carpenters, when they want a short piece of lumber, to cut it from a long board. Form work must be designed by an engineer fully experienced in this class of work, and a completely equipped power saw and planer will pay for itself in a short time. Who has not noticed the waste of time and money in transporting lumber; and instead of having some salvage of the form lumber, nothing but kindling wood is left over from the job.

Every man should have an avocation besides his regular vocation, and should take care, above all, of his health. Many a builder works from twelve to fourteen hours a day and keeps this up for years, and suddenly he begins to disintegrate, geologically speaking. As history repeats itself, so do the events of the human life—the disintegrated Roman Empire finally became decomposed, and whenever any man finds himself on the road ot disintegration, mentally or physically, he should stop at once and turn back to the road to recuperation.

To raise the standard of the builders to a higher level these suggestions are made:

1. Discontinuing of the issuing of bonds to irresponsible builders by the bonding companies.
2. Practising of fairness in dealings between architect, owner and contractor.
3. Developing of educational efforts and instruction by builders' associations.
4. Obtaining of better technical and general education on the part of the contractor.
5. Cultivating of ethical pride by the contractor.

Unless our aim is for betterment and higher ideals we soon disintegrate. We will lose our place in history if we stop improving or neglect to put "value in our work." The cardinal points which should govern all our actions are liberty, loftiness, purity, honesty, truthfulness, thoroughness and tolerance.

—*The American Contractor.*

NECESSITY OF PROTECTING CONCRETE AND MASONRY

Applying the "Save the Surface" principle to Concrete and general Masonry as well as to wood, iron and steel.

It seems rather inconsistent with the general spirit of Efficiency and Conservation so intimately associated with American business life that so little is done to obtain longer life and better service out of exposed masonry construction—especially concrete and stucco.

Every well managed manufacturing plant is an example of well preserved wood and steel surfaces; sheds and fences are coated with lead, zinc and oil paint, while steel sash, tanks, stacks and structural metal work have their protective covering of rust-inhibitive paint.

Wood and Steel Receive Weather Protection

But in the same group of buildings, in the midst of all this weather-protected wood and steel, one will find thousands of square feet of bare concrete, brick or stucco, without any protective coating whatever—left entirely exposed to the weather.

In some cases, this lack of protection seems to do no apparent harm, at least not for a while, just as an unpainted wood structure might occasionally resist rot and decay to an unusual degree for a short time.

Why Neglect Masonry?

But to offset these exceptions, one will also find concrete surfaces disintegrating so badly as actually to expose large sections of reinforcing steel—cement plastered walls checked so thoroughly as to indicate the immediate necessity of resurfacing; stucco surfaces rendered unsightly by reason of weather streaks and scaling. It is not enough to say that such evidence of disintegration are unsightly—that they indicate property depreciation, loss of prestige and value; they are also dangerous and costly.

Neglect Difficult to Explain

It is difficult to explain this neglect of weather-protection that should be accorded Portland cement construction except that we might ascribe it to the natural inclination to associate concrete, because of its solid, substantial nature, with imperishable materials requiring no weather protection. Such an attitude, of course, is wrong, because at the last analysis, no building material—not even polished granite, is imperishable or unaffected by change when continuously exposed to the weather.

Yet neglect it certainly is, and neglect of the grossest kind, as a little reflection will very soon indicate that concrete,

stucco, brick and stone are just as urgently in need of weather-protective and preservative measures as their apparently more perishable brothers, wood and steel.

Water the Active Element of Destruction

Take, for example, the action of water on concrete or stucco. Water is very easily absorbed into a concrete or stucco surface, and if we remember that water, on freezing, expands 10 per cent. of its volume, we can appreciate what an enormously disruptive force a little absorption of water into a concrete surface can create.

Frost

The disconcerting feature of this is that each successive absorption of water, freezing and thawing, has a tendency to make it easirer for future absorption. Water, we might say, opens pathways for itself in the concrete so that moisture can penetrate deeper with each absorption. Eventually, it attacks the reinforcing steel, causing rusting.

The rusting of the reinforcing of structural steel is again accompanied by an increase in volume of the steel, because rust occupies two and two-tenths (2.2) times the space of the original metal. Consequently, the rusting of the reinforcing steel is dangerous not only on account of the weakening of the reinforcing, but more especially on account of the powerfully disruptive force which this corrosion exerts on the surrounding concrete, long before the weakening of the steel becomes a factor of danger.

However, while frost is a very dangerous element in the disintegration of concrete, it is not by any means the only element.

Probably a far more consistent and insidious source of trouble is experienced through the changes in volume in Portland cement construction by reason of alternate wetting and drying. The expansion and contraction of metal as a result of heating and cooling is very generally known, but that there also takes place an expansion and contraction in a bar of concrete as the result of wetting the bar and drying is not so generally known.

Experiments by Prof. Alfred H. White, of the Department of Chemical Engineering of the University of Michigan, as well as the work of various other scientists along these lines and covering a long period of years, have been watched with considerable interest.

Such expansion and contraction induces internal strains in the concrete, likely to cause dangerous cracks, exposing the steel to direct contact with the elements, causing rusting of the reinforcing and disintegration of the concrete members.

For further evidence of the necessity of protecting concrete and stucco, as already explained, one need only observe the frequent examples of scaling concrete, or cracked and scaling stucco. It is true that the same disadvantages apply to brick and stone, although brick and stone construction is of somewhat different character, and hence the damage done to the surface is not always so productive of apparently harmful results as in the case of concrete. Nevertheless, moisture does penetrate brick and stone walls, causing disintegration at the mortar joints, loosening the brick or stone, and imparting decided evidences of dampness on the interior.

The point that should never be lost sight of is that water is the great destroyer. Experiments have proved that moisture is the one element absolutely essential to the rusting of steel. In a similar manner, it is equally essential to the rotting of wood, to the crumbling of concrete, the cracking of stucco, or the general disintegration of any building material. Without moisture, disintegration rarely occurs. The pyramids of Egypt stand today after five thousand years, because they are located in a comparatively dry region. Transferred to the United States, or to any other country subjected to climatic changes such as our own, the same structures would not last fifty years.

This point was very forcibly brought to our attention when the Khedive of Egypt presented us with the celebrated obelisk known as Cleopatra's Needle. This obelisk had withstood fairly well the ravages of time for at least three thousand years. At the end of two years after having been set up in Central Park, New York City, very decided evidences of erosion began to appear. The surface of the stone began to scale badly and numerous pieces of rock began to fall. Moisture and frost were the cause of the trouble, and steps had to be taken to preserve this valuable memorial of the Pharoahs by protecting the surface against water.

Let it be stated definitely that any masonry surface which is exposed to the process of weathering, involving extremes of climatic conditions, wetting, drying, etc.. should be adequately protected. This applies with equal force to natural stone, artificial stone, unfaced brick, stucco, concrete or plaster.

LET US THINK THAT WE BUILD FOREVER. OR THE PRESENT MAGNITUDE OF THE BUILDING INDUSTRY

BY H. A. BRICE

Few are aware of the magnitude of the great construction industry and what it represents. Reliable data recently compiled show it to be second only to that greatest of all industries, agriculture.

It has been called the key industry in that it unlocks practically all of our activities and resources. It reaches into the mines and forests and into a multitude of factories, and draws from them the raw material and finished products which are wrought into buildings and other construction enterprises.

Approximately 90 per cent. of all iron ore, copper, zinc ore and 95 per cent. of lead production are consumed by construction. About eleven million persons, either as workers or as members of workers families, derive their living from construction. The support given to agriculture and trade by the annual expenditure of this great number of persons is too apparent to require discussion.

The value of new capital issues during 1920, so far as data have been reported, reaches the high figure of four and one-half billion dollars, consisting of State, municipal, railroad and industrial securities; and of this total approximately 60 per cent were issued for construction in some form or another.

While it is true that the builders who handle the final assembling of materials represent only a limited part of this industry, they may be likened to the keystone of the arch. On them depends the great responsibility for safeguarding the industry and the nation.

Looking into the future of construction we seem to be faced with a situation unparalleled in its history. Aside from the development we might expect from the normal growth of this country and the great highway building program now under way throughout the country, we have an accumulated shortage resulting from that period of restricted building during the war when the industry was practically at a standstill. It has been conservatively estimated that it would require approximately ten years to catch up this shortage.

For the period including from about the first of the year 1915 until the beginning of the present year, if one were to plot a curve representing the average change in construction costs, he would find that the line would rise gradually though with periods of fluctuation, until about the middle of 1920, when it would reach a peak of approximately 250 per cent. above the level at which it began. From that date a more rapid descent takes place until the fall of 1921, when general business conditions began to improve. From that time up until the present, the line maintains practically a level.

In the face of the fact that at the present time many of the larger cities are announcing building programs for the coming months that are staggering to contemplate, it would seem hardly possible for one to expect further decline in construction costs within the near future.

—*Building Age.*

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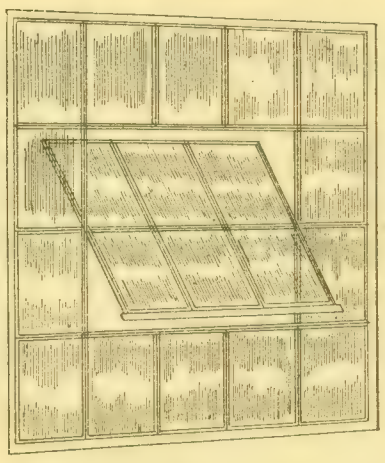
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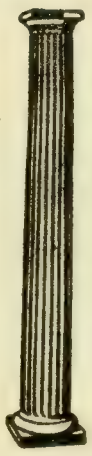
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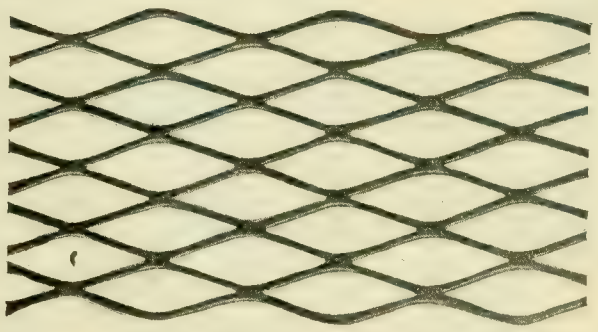
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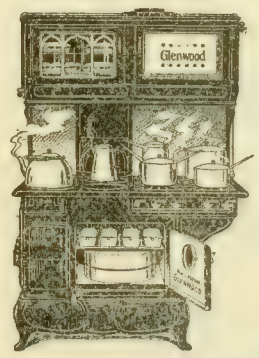
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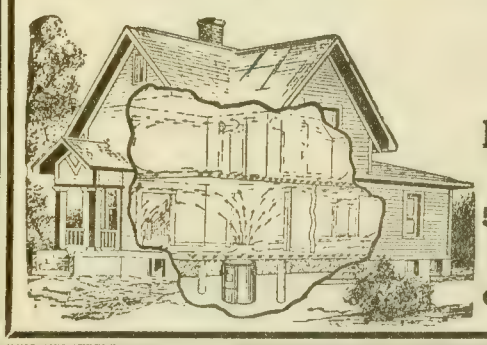
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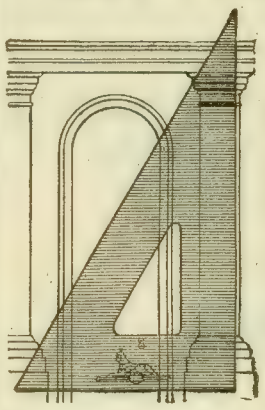
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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As The Editor Sees It

DOES AN ARCHITECT MAKE A GOOD CONTRACTOR?

*FROM the subject which has been given me, it would appear that you, gentlemen, as architects, have awakened to the fact that there is a growing tendency to depart from what has heretofore been generally recognized as the proper procedure in construction—that of an owner commissioning an architect or an engineer, and he, in turn, letting a general contract by the competitive bid method.

This procedure is well established and sound and, if the principles involved therein are adhered to, there is no occasion for nor will there be any departure therefrom.

There is no denying the fact, however, that owners, architects, and contractors are departing from this procedure! and it necessarily follows that their departure is the result of a belief that by so doing they can better accomplish their purpose.

It is to be expected that my viewpoint of the situation is from the standpoint of a contractor, or perhaps I should say from a group of contractors as I am speaking for the Southern California Chapter of the Associated General Contractors, and I desire to say here that our Association deems it a privilege and an honor to be given the opportunity of addressing you on this subject.

Why do some owners, architects, and contractors feel that their purposes can better be served by a departure from the regular procedure?

In so far as the owner is concerned there is only one reason, he is made to believe that by so doing he is increasing the purchasing power of his dollar.

Lump Sum Contract Most Economical

Generally speaking this is not true. Whether the departure be along the pathway of day-labor methods, percentage contracts, fixed-fee contracts, segregated contracts or whatnot, the owner's interest will not, in the long run, be as well served by any of them as by a lump-sum form of contract in which the contract price has been determined by the taking of competitive bids.

Do you gentlemen suppose for one minute that the citizens of Los Angeles would have voted to spend seventeen million dollars for the contruction of new school buildings or twelve million for a new outfall sewer, had they thought this money would be expended in any manner than by contracts based on competitive bids from general contractors?

I can only assume as to why the architect ventures a departure. It may be due to the influence of the owner. It is probably very often due to the additional fee he receives, and just as often because he feels that by so doing he will obtain a more satisfactory execution of his plans and spectifications.

A contractor's reasons are many, some of them fancied and some of them real. A goodly number have no foundation whatever, and these are generally the result of his lack of appreciation of the obligation he assumes by the signing of a contract.

I intend to be very frank and name a few of the real reasons why contractors, who feel themselves capable, encroach on the architect's field.

The construction industry, of which we are both such a vital part, is now conceded to be the second largest industry in the country, second only to agriculture. There has been a decided change in the personnel of the general contractors in that industry during the past 20 years or even during the past 10 years. Improved methods are definitely eliminating the rule-of-thumb contractor, and the contractor of today feels that he is entitled to and should receive the same recognition as the architect or engineer.

Your profession has permitted commercialism to gain such a foothold that, in many cases, completeness of plans and specifications is sacrificed in order that more of the fee may be retained as a net profit. Where this is done controversies arise, extras are claimed, and both owner and contractor are dissatisfied.

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tape on construction work bearable is the wonderul completeness of the plans and specifications and the exactitude with which one can determine the volume and kind of work to be done.

The custom of calling for such a multitude of alternate bids is not looked on with favor by the contractor. He feels that it is part of your service to the owner to pre-determine the volume of work to be done and the kind of materials to be used.

Contractors feel that in many cases bids are requested and their time consumed in preparing estimates on work, when the architect knows there is not even a remote possibility of the work going ahead; and it is a very common occurrence for a contractor to submit a proposal to an architect and for that proposal to be held for a month or more without being accepted or rejected, the contractor being unable to obtain any information regarding same. This is obviously unjust and should not be continued if it is your intention to recognize the service rendered to the industry by the contractor.

Draw your contracts so as to show fairness to both parties concerned, the owner and the contractor. Insert an arbitration clause in them so that honest differences may be settled out of court. This may be working a hardship on our friends, the attorneys, but nevertheless it is a most satisfactory way of adjusting disputes.

In your contracts and specifications avoid the shifting of responsibility. I have seen contracts based on specifications which provided that the contractor was to assume all responsibility for plans and specifications complying with city ordinances.

Tit for Tat

Conditions such as I have mentioned have a tendency to create a desire in the contractor to undertake himself the architectural service necessary to a construction project, and it is with increasing frequency that you hear of it from the larger contracting firms.

Please do not think for one moment that I fail to appreciate the fact that in many instances contractors have, by their unsatisfactory methods, driven the architects to seek a method whereby they might be eliminated.

It is necessary, however, that we tell you our troubles and you tell us yours if anything is to be done to check this tendency to encroach on one another's field.

There never was a truer saying than this: "A man who is his own attorney has a fool for a client." The principle is applicable to construction. We each have a distinctive service to perform and I doubt very much the ability of either of us to sucessfully assume the other's position.

Our Association will heartily endorse any effort on your part to eliminate the undesirable man in the business, because by so doing we both will be rendering a really honest service to the public. Unless such a service is rendered there is no justification for the existence of yours, ours, or any similar organization.

FRED F. MORAN, of the New York State Department of Education and Supervisor of the Development for the Apprenticeship Commission of the New York Building Congress, in discussing apprenticeship at the meeting of the Philadelphia Building Congress last week said, the New York Building Congress has over 500 members and at their bi-weekly luncheons they have an attendance of about 325 members. To date they have had among their many contributors the Union Carpenters, who have contributed $1,000 and the Painters and Decorators, who have contributed $1,250 to the apprenticeship work to their Congress and pointed to this as showing how the workers feel toward training of apprentices in the building trades.

The Standard Oil Company in New York commenced their new building in the off season to demonstrate the feasibility of correcting seasonal unemployment.

The painters and decorators have worked out an ideal system, brought on by the knowledge that 75 per cent. of boys leaving school from 14 to 15 years old start out for any kind of work and get nowhere. They flounder around until they are 20 years old, and then they have forgotten all they learned in school. A very few enter the trades.

There are four or five vocational schools in which boys are supposed to stay four years, but in which they rarely stay more than two years. A great many only remain a few months, and there is no direct contact between these schools and industry. Therefore, the effort of these schools is wasted, and there are no value whatever to industry.

The unions realize that a real union must have skilled mechanics and labor is at the present time behind the movement to have laws regulating apprenticeship. Under the Building Congress program for apprenticeship, the employers have a guaranty to take boys at the end of two years, pay them $4.00 per day as second year apprentices. Under this plan, they are compelled to attend night school two nights per week and two hours each night. The painters and decorators held an examination for instructors among the locals and from a large list they selected twelve men which they recommended to

(Continued on page 803)

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Stores and Apartments (3), Northwest Corner Forty-first and Walnut streets, Philadelphia. Architect and engineer, M. H. Boonin, 1506 North Alden street, Philadelphia. Owner, Samuel Rosin, care of architect. Brick, stone and steel, 3 stories and basement, 24x80 feet, pine and composition floors, marble work, flush bulks, cornice work. Architect is taking bids.

Synagogue, Hutchinson and Warnock streets, Philadelphia. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, name withheld. Rubble and cut stone and brick, 3 stories, 30x95 feet, slag roof, hardwood floors, electric lighting, hot water heating, marble work. Architect will take bids in two weeks.

Labe Store and Office Building, Southeast Corner Broad and Rockland streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Rockland Realty Co., care of Mastbaum Brothers & Fleisher, 1424 South Penn Square, Philadelphia. Brick, steel, concrete, limestone and terra cotta, 2 stories. Plans in progress. Will be ready for bids in six weeks.

Hotel, Central Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, name withheld. Brick, concrete, steel, stone and terra cotta. Will contain 600 rooms. Plans in progress. Too early for details.

Apartment House, Southwest Corner Forty-egihth and Walnut streets, Philadelphia. Architects and engineers, Jesse L. Stetler and Harvey M. Deysher, 1484 North Fifty-second street, Philadelphia. Owner, name withheld. Brick and steel, 3 stories and basement, 92x117 feet, will contain 34 apartments, slag roof, hardwood floors, vapor heating, electric lighting, tile and marble work. Plans in progress.

Convent, location withheld, Philadelphia. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Brick, stone and steel, 3 stories, 60x40 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Plans in progress. Architect will be ready for bids in one month.

Sales and Service Building, 3020-32 Market street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Reynold H. Greenberg, Morris Building, Philadelphia. Brick, concrete and steel, 4 stories. Plans in progress.

Stores and Apartments (2), Southwest Corner Boudinot and Kensington avenue. Architect, private plans. Owner, Alan Lare, 234 South Fifty-first street, Philadelphia. Brick, 2 stories, garage (15-car capacity), brick, 1 story, slag roof, composition, pine and cement floors, metal ceilings, metal bulks, plate glass, painting, glazing, hot water heating, demolition, electric lighting. Plans in progress. Will be ready for bids in one week.

Stores (2), Apartments (3), Somerset and Kensington avenue, Philadelphia. Architect, private plans. Owner, Alan Lare, 234 South Fifty-first street, Philadelphia. Brick, 3 stories, irregular size, slag roof, composition and pine floors, metal bulks and ceilings, plate glass, painting, electric lighting, hot water heating, demolition. Plans in progress. Owners will be ready for bids in ten days.

Stores and Apartments (4), Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick and steel, 3 stories, 21x90 feet, slag roof, oak and pine floors, metal lath, hot water heat, electric light, tile work. Plans in progress. Will be ready for bids in one week.

Residence, Oak Lane, Philadelphia. Architect, Eugene A. Stopper, 1507 Arch street, Philadelphia. Owner, George W. Keller, 305 East Upsal street, Philadelphia. Stone and steel, 2½ stories, 28x40 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress. Architect will be ready for bids December 28th.

Twin Residences (2 pairs), South side of Pine, between Fiftieth and Fifty-first streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, 16x68 feet, slag and slate roof, hardwood floors, metal lath, cement work, hot water heating, electric light, tile and marble work, garages in rear. Plans in progress.

Residence, South side of Pine, between Fiftieth and Fifty-first streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick and stone, 3 stories, 20x62 feet, slag and slate roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Plans in progress.

Residences (34), Fifty-fourth and Lebanon avenue, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, Kenin & Shapiro, 5850 Market street, Philadelphia. Brick, 2 stories, 16x56 feet, slag and slate roof, hardwood floors, hot water heating, electric lighting, tile work, garages in rear. Owners will be ready for sub-bids in one week.

Residence, Roxboro, Philadelphia. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Mrs. M. S. Mears, 6701 Ridge avenue, Roxboro. Frame and stucco, 2½ stories, 24x34 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Owner is ready for bids.

Store and Apartments (alts.), Northeast Corner Ninth and Erie avenue. Architect, William H. Wooters, 816 West Allegheny avenue. Owner, Thomas J. Mallon, care of architect. Brick, 1 story, 16x16 feet, slag roof, hot water heating, electric lighting, plumbing, cement work, iron stairs. Owner will build and architect is taking sub-bids.

Residences (38) (4 corner residences), Ridgewood street, between Fifty-fourth and Fifty-first streets, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Charles E. Biddle, 730 South Fifty-second street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hardwood floors, hot water heat, electric lighting, tile work. Owner is taking sub-bids.

Two-Family Houses (5), North side of Sansom, between Fifty-fourth and Fifty-fifth streets. Architects and engineers, Jesse L. Stetler and Harvey M. Deysher, 1484 North Fifty-second street, Philadelphia. Owners, Schlosberg Brothers, 425 North Fifty-second street, Philadelphia. Brick, 2 stories, 18x75 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Owners will be ready for sub-bids in a few days.

Apartment House, 877 Holly street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, J. Eskins, on premises. Brick, 2 stories, 25x90 feet, slag roof, hardwood floors, hot water heat, electric lighting, tile work, hollow metal skylights, gal-



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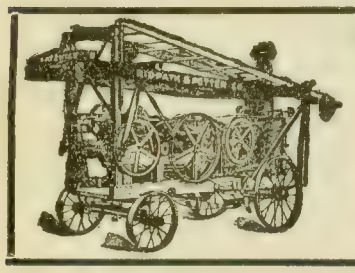
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Store (alts.), 6019 Market street, Philadelphia. Architect, Joseph F. Bradley, 1121 Fillmore street, Philadelphia. Owner, A. Berman, on premises. Brick and terra cotta front, 16x30 feet, electric work, tile work, ornamental iron work, cement work, mill work, painting, glazing. Owner will be ready for bids in a few days.

Residences and Stores (4), Passyunk avenue, East of Chadwick street, and **Shop and Storage Building**, Cantrell street, East of Chadwick street, Philadelphia, $138,000. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, Otto Zachar, 1630 West Passyunk avenue, Philadelphia. Brick, 2 stories, 16x59 feet, 32x84 feet, slag roof, hardwood floors and pine floors, reinforced concrete, metal ceilings, waterproofing, bond, plumbing, tile and marble work, metal lath, hot water heat, steam heat, electric light. Owner will build.

Kitchen Wing, House of Correction, Holmesburg, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Publicc Welfare, Bureau of Charities and Correction, City Hall, Philadelphia. Brick, concrete and steel, 1 story, 75x115 feet, Barrett roof, concrete and pine floors, metal lath, roof ventilators, iron work, floor hardener, rolled steel skylights, demolition. Owners taking bids due December 20th at noon.

Work Shop (add.), Allison street, West side, South of Arch street. Architect, private plans. Owner, Samuel Yellin, 5520 Arch street, Philadelphia. Brick, reinforced concrete, 2 stories, 49x96 feet, slag roof, maple, cement and composition floors, terra cotta, demolition, hot water heating, electric lighting, terra cotta. Owner taking bids due lighting. Owner taking bids due December 15th.

Benjamin Franklin Hotel, Ninth and Chestnut streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Benjamin Franklin Hotel Co., care of A. H. Mershon, Land Title Building. Granite, cut stone, limestone (Indiana), reinforced concrete and steel, 16 stories, loft, basement and sub-basement, 194x230 feet, slag and tile roof, asphalt, mastic, cement and oak floors, hollow tile, metal lath, safety treads, waterproofing, terra cotta, iron work, cork insulation, vault doors, bond, kalamein and hollow metal doors, hollow metal sash, tile and marble, electric light, steam heat, demolition. Architect taking bids due December 21st.

Sales and Service Building, Thirty-sixth and Walnut streets, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building. Owners, name withheld. Reinforced concrete, brick, cut stone and steel, 1 story, 120x180 feet, Barrett slag roof, cement floors, metal lath, dampproofing, iron work, floor hardener, bond, kalamein doors, rolled steel sash, tile and marble work, steam heat, electric light, demolition. Architects taking bids due December 15th.

Post Office Building (alts.), Ninth and Market streets, Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, care of Custodian of Site. Alterations to first and second floors and lookout gallery, concrete work, painting, glazing, steam heating, plumbing, cement floors, metal lath, plastering, carpentry, mill work. Owners taking bids due December 28th at 3 P. M.

Residences and Garages (22), Stores and Resisdences (3), Fifty-fourth street, Kershaw and Master streets, Philadelphia, $108,000. Owners, Rudnick, Meltzer & Casey, 1070 Drexel Building, Philadelphia. Brick, 2 and 3 stories, various sizes, hot water heating, electric lighting. Owners will build.

Building (alts.), 1620 Spruce street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Morris Polin, care of architect. Cement work, carpentry, painting, glazing, demolition, steam heating, electric lighting, metal lath, plastering, structural iron work. Architect taking bids.

Residences (7), South side Magee street, East of Ditman, $26,500. Archtiect, private plans. Owner, D. J. Gercke, 6938 Tulip street, Philadelphia. Brick 2 stories, 15x40 feet, 15x30 feet and 12x10 feet, slag roof hot water heat, electric light. Owner will build.

Residences (28), Fifty-fifth and Pentridge streets, and Fifty-fourth and Florence avenue, Philadelphia, $129,000. Owner, R. H. Pugh, Ridge and Girard avenues, Philadelphia. Brick, 2 stories, 18x32 feet and 17x37 feet, slag roof, electric light, hot water heat. Owner will build.

Residences and Stores (2), 230-32 South Tenth street, $10,000. Architect, private plans. Owner, Mrs. Hyman Seidman, 5009 D street, Philadelphia. Brick, 3 stories, 17x29 feet, 14x36 feet, slag roof, hot water heat, electric light, tile work, oak and pine floors. Owner will build.

Residences and Garages (7), West side Fifty-seventh street, North of Beaumont avenue, $50,000. Owners, Local Building Company, Fifty-seventh and Pentridge streets, Philadelphia. Brick, 2 stories, 15x58 feet and 15x32 feet, 12x15 feet, slag roof, oak and pine floors. Owners will build.

Residence, Southeast Corner Greene and Mt. Pleasant avenue, $15,000. Architect, private

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plans. Owner, Don Peters, 515 Pelham road, Philadelphia. Stone, 3 stories, 45x30 feet, 18x16 feet, slate roof, oak and pine floors, electric light, hot water heat. Owner will build.

Residence, South side Haines street, West of Boyer street, $9,500. Architect, private plans. Owners ,Hill Const. Co., 5609 Germantown avenue, Philadelphia. Stone, 3 stories, 25x31 feet, slate roof, hot water heat, electric light. Owner will build.

Residences and Stores (7), South side Orthodox, West of Worth, $4,500 each. Architect, private plans. Owner, Cezary Lakowicz, 4655 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x48 feet, 13x12 feet, hot water heating, electric lighting. Owner will build.

Residence and Store (alts. and add.), Northeast Corner Ninth and Erie, $4,000. Architect, private plans. Owner, Thomas J. Mallon, 2841 North Eighth street, Philadelphia. Brick, 1 story, 16x16 feet, slag roof, general alterations. Owner will build.

Factory and Boiler House, Northeast Corner Langdon and Devereaux streets, $6,000. Architect, private plans. Owners, H. M. & C. B. Siner, Church and Tacony streets, Philadelphia. Brick, 1 story, irregular size, boiler house, 37x48 feet, slag roof, electric work, pine floors. Owner will build.

Residence, South side Frey street, East of Ridge avenue, $4,500. Architect, private plans. Owner, Adam Wilkinson, Harmon road, Roxborough, Philadelphia. Frame, 2 stories, 16x35 feet, hot air heating, electric lighting. Owner will build. .

Residence, 4708 North Fifth street, Philadelphia, $4,000. Architect, private plans. Owner, Walter Wetzel, 4710 North Fifth street, Philadelphia. Brick, 2 stories, 16x30 feet and 13x35 feet, slag roof, hot water heating, electric lighting. Owner will build.

Residences (15), East and West sides Armstrong street, North of Penn street, Philadelphia, $3,500 each. Architect, private plans. Owners, James Nolan & Sons, 64 Church Lane, Philadelphia. Brick, 2 stories, 15x28 feet and 12x10 feet, slag roof, hot water heat, electric light. Owner will build.

School, East Washington lane and Musgrave street, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Lowest bidders: M. Melody & Son, 1322 Race street, Philadelphia, $798,490; William R. Dougherty, 1610 Sansom street, $821,695. Electric, Walker & Kepler, 531 Chestnut street, $29,953. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, $37,985. Heating, S. Faith & Co., 2427 Pennsylvania avenue, $78,600. Ventilating, W. Howlett Co., Fourth and Columbia avenue, $3,529.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Department of Public Works, City Hall. The following were low on grading and paving opened December 1st, 1922:

Grading — Annsbury street, Palethorpe street to Rising Sun avenue, $1,579.68; Pine street, Forty-eighth street to Forty-ninth street, $1,436.60; Sansom street, Forty-ninth to Fiftieth street, $1,286.12; Smedley street, Sixty-seventh avenue to Sixty-eighth avenue, $1,162.70; Stockley street, Westmoreland street to Hunting Park avenue, $9,977.85; Ferrante & Celleci, Sixteenth and Dickinson streets, Philadelphia. Hope street, Louden street to Rockland street, $197.30; T. L. Flanigan, 1204 East Montgomery avenue, Philadelphia. Bridge street, Roosevelt Boulevard to Summerdale avenue, $25,211.69; Luray street, D street to Whitaker streete, $6,583.78; D. Delisle, 4842 Leithgow street, Philadelphia.

Paving and Improving—Lansdowne avenue, Sixty-eighth street to Haverford avenue, $44,913.12; Barber Asphalt Co., Land Title Building, Philadelphia.

Residence and Store (alts. and add.), Southwest Corner Nippon and Germantown avenue, Philadelphia, $4,000. Architect, private plans. Owners, A. S. Tourison, Jr., and S. C. Tourison, 7014 Boyer street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, general alterations. Owners will build.

Residence (alts.) to Apartments, Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. General alterations to three story residence, hot air heating, plumbing, tile work, carpentry, mill work, hardwood floors. Architect is taking sub-bids.

Residence (add.), Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, 1 story, 12x15 feet, slate roof, hardwood floors. Plans in progress. Architect will take bids in one week.

Residence, Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Stone, half timber and stucco, 2½ stories, 28x38 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Architect is taking sub-bids.

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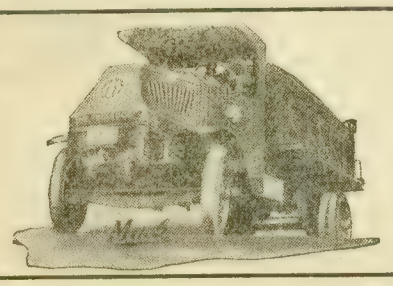
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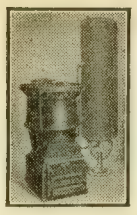
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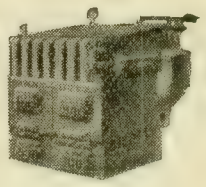
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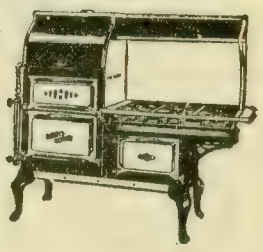
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residences (2), East side Sixth street, South of Sixty-fifth avenue, $13,500. Architect, private plans. Owner, Samuel Shapiro, 1910 North Thirty-first street, Philadelphia. Brick, 2 stories, 45x23 feet, 20x4 feet and 26x22 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Max Siegel, 1837 North Franklin street, Philadelphia.

Residence, South side Arthur street, East of Fairview, $5,450. Architect, private plans. Owner, Mary Little, 1926 Hart Lane, Philadelphia. Frame, 2 stories, 26x28 feet, shingle roof, oak and pine floors. Contract awarded to N. T. Garrison, 1338 North Tenth street.

Store Building (alts. and add.), 37-39 South Sixtieth street, $8,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Michael Weinstein, care of architect. Brick, 3 stories, 30x31 feet, slag roof, oak and maple floors, pine floors, metal lath, roof ventilators, metal ceilings, dampproofing, iron work, metal bulks, bond, hollow metal sash, tile and marble work, electric lighting, hot water heating. Contract awarded to Philip Savar, 718 Snyder avenue, Philadelphia.

Factory Building, Thirty-second and Turner streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Charles A. Kahn, Morris Building, Philadelphia. Brick, reinforced concrete and steel, 3 stories, 214x137 feet and 165 feet, slag roof, cement floors, metal lath, dampproofing, terra cotta, iron work, tin covered doors, hollow metal sash and skylights, demolition (heating, plumbing, electric work and elevators reserved). Contract awarded to Nelson Pedley Const. Co., Inc., 1615 Spruce street, Philadelphia.

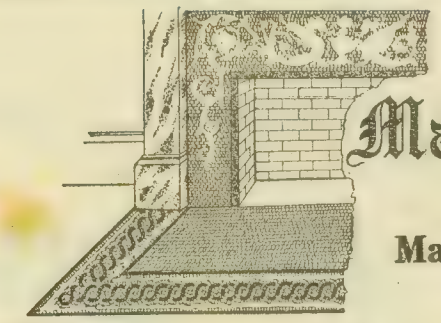
Factory Building, Tioga and Janney streets, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owners, Cold Blast Feather Co., 169 West Berks street, Philadelphia. Brick, cut stone and steel, 2 stories, 133x77 feet, slag roof, mineral floors, hollow tile, metal lath, dampproofing, terra cotta, hollow metal doors, rolled steel and hollow metal sash, tile and marble work. Contract awarded to Farrell Roth Const. Co., 122 Diamond street.

Warehouse, Germantown avenue and Van Horn street, Philadelphia. Architects, Ritter & Shay, North American Building, Philadelphia. Owner, James M. Ewing, care of architect. Brick and steel, 1 story, 140x80 feet, composition roof, cement floors, steam heating, electric lighting, rolled steel sash, hollow metal skylights, bond, iron stairs, iron work. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Garage, Lombard street, between Second and Third streets, Philadelphia. Architect, Walter D. Smedley, Stephen Girard Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets. Reinforced concrete, brick, cut stone and steel, 3 stories, 104x120 feet, Barrett roof, concrete floors, safety treads, iron work, bond, hollow metal sash, hollow metal skylights, demolition, steam heating. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Ice Storage Building, Seventeenth and Washington avenue, Philadelphia. Architect, private plans. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick and steel, 1 story, 125x150 feet, slag roof, cement floor, rolled steel sash. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street.

Convent, 240 Hermitage street, Manayunk, Philadelphia. Architect, John A. McKibben, Industrial Trust Building, Wilmington, Del. Owners, Roman Catholic Church of the Holy Family, Rev. William Grace, Manayunk, Philadelphia. Contract awarded to Elmer L. Cuthbertson, 334 Roxboro avenue, Roxboro, Philadelphia. Architect is taking sub-bids on



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Store Building, 217 South Broad street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Heymann Brothers, Widener Building, Philadelphia. Brick, cut stone and granite, 2 stories, 124x20 feet, slag roof, cement floors, steam heat, electric light, tile and iron, metal lath. Contract awarded to John Schnabel, Inc., Denckla Building.

Factory, Westmoreland street and Delaware River, Philadelphia, $100,000. Architect, Cloyd M. Chapman, 171 Madison avenue, New York City. Owners, Pennsylvania Brick & Tile Co., care of Louis F. Ducker, president, 719 Bulletin Building, Philadelphia. Steel, 1 story. Contract awarded to Cemprod Eng. & Const. Co., 171 Madison avenue, New York City.

Convent (alts. and add.), Fifty-ninth street above Media street, Philadelphia. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, St. Rose of Lima's Roman Catholic Church, Rev. J. M. Bourne, Fifty-ninth and Media streets. Brick, 2 stories, 30x32 feet, general interior alterations. Contract awarded to Frank Morris, 5811 Master street, Philadelphia.

Garage, 510-16 New Market street, Philadelphia, $12,000. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, P. Kostrinski, on premises. Brick, 1 and 2 stories, 30x70 feet, 63x80 feet and 10x80 feet, slag roof, cement floors, electric lighting. Contract awarded to L. Bugus, 480 North Fifth street, Philadelphia.

Wesley Building (alts.), Seventeenth and Arch streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Clara E. and Rutherford W. Jennings, care of architects. Office partitions, lobby alterations, masonry, steel and iron work, carpentry, mill work, marble and terrazzo, plastering, painting, glazing. Contract awarded to W. O. Springer, 2004 Naudain street, Philadelphia.

Offices (alts.), 1335-37 Vine street, Philadelphia. Architect, private plans. Owner, Goldwyn Distributing Corp., on premises. General alterations, changing partitions, carpentry, mill work, painting, glazing, brick work, plastering, metal ceilings, fire doors. Contract awarded to A. S. Shafer, 2122 South Nineteenth street, Philadelphia.

Garage, 2206-08-10 West Allegheny avenue, Philadelphia, $20,000. Architect, private plans. Owner, A. M. Sam, 2312 West Allegheny avenue, Philadelphia. Brick, 2 stories, 50x50 feet and 50x175 feet, slag roof, hot water heat, electric light, cement floors. Contract awarded to J. G. T. Miller, 2325 West Allegheny avenue.

Three-Family Apartment, Southwest Corner Forty-seventh and Cedar avenue, $10,000. Architect, private plans.s Owner, Robert Hamilton, Forty-second and Chester avenue, Philadelphia. Brick, 3 stories, 22x69 feet, slag roof, electric lighting, oak and pine floors, tile work. Contract awarded to Samuel Edge, 5014 Willows avenue, Philadelphia.

Warehouse, 1437 Bristol street, Philadelphia, $10,000. Architect, private plans. Owner, Joseph W. Haas, 4532 North Carlisle street, Philadelphia. Brick, 1 story, 60x83 feet, slag roof, electric light, steel sash. Contract awarded to Stephen Haas, 3903 North Broad street, Philadelphia.

Office and Show Room, Southwest Corner Broad and Christian streets, $15,000. Architect, private plans. Owners, Gulf Refining Co., 516 Widener Building, Philadelphia. Brick, 1 story, 20x30 feet, slag roof, cement work. Contract awarded to J. M. Milliken, Frick Building, Pittsburgh.

Residence, North side Herschell street, East of Cemetery lane, $10,000. Architect, private plans. Owner, Mrs. Frances Linton, Somerton, Pa. Frame, 2 stories, 40x27 feet, hot water heat, electric light. Contract awarded to William D. Bubeck, Somerton, Pa.

Residence, South side Hoffnagle street, West of E street, $6,000. Architect, private plans. Owner, H. Stout, Cheltenham, Pa. Frame, 2 stories, 26x38 feet, oak and pine floors, electric lighting. Contract awarded to H. Stout, Cheltenham, Pa.

Residence, 4702 Chester avenue, Philadelphia, $8,000. Architect, private plans. Owner, Robert Hamilton, Forty-second and Chester avenue, Philadelphia. Brick, 2 stories, 22x69 feet, slag roof, electric light, oak and pine floors, tile work. Contract awarded to Samuel Edge, 5014 Willow avenue, Philadelphia.

Residence (fire repairs), 2021 Locust street, $7,500. Architect, private plans. Owner, Mrs. Charles W. Nevin, Aldine Hotel, Philadelphia. Carpentry, mill work, plastering, electric work, painting. Contract awarded to George J. Watson, 421 Chestnut street.

Store, 313 North Second street, Philadelphia, $6,500. Architect, private plans. Owners, Rishoff-Shaw Co., 734 Moore street, Philadelphia. Brick, 2 stories, 44x19 feet, 31x16 feet, slag roof, electric light, pine floors. Contract awarded to E. H. Levin, 1631 South Fifth street, Philadelphia.

Apartments (alts.), 2003 North Thirteenth street, Philadelphia. Architect, private plans. Owner, J. Stein, Northeast Corner Camac and Norris streets, Philadelphia. Carpentry, mill work, demolition, plastering, metal lath, painting, glazing. Contract awarded to A. S. Shafer, 2122 South Nineteenth street, Philadelphia.

Factory and Warehouse, Fourth street, above Race street. Engineers, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Stephen F. Whitman & Sons Co., Inc., premises. Reinforced concrete, steel and brick, 5 stories. Contract awarded to William Steele & Sons Co., 1600 Arch street.

Residences (2), South side Benner street, East of Palmetto street, $8,000 each. Architect, private plans. Owner, John Schaum, 4326 North Fourth street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, electric work. Contract awarded to William M. Benner, 4326 North Fourth street, Philadelphia.

Residences (2), South side Devereaux street, West of Cottage, $6,000. Architect, private plans. Owner, W. H. Waters, 5517 North Fifth street, Philadelphia. Brick, 2 stories, 15x41 feet, slag roof, electric lighting. Contract awarded to F. Storkey, 1669 Bridge street, Philadelphia.

Garage, East side C street, South of Cambria street, Philadelphia, $5,000. Architect, private plans. Owner, William Clayton, Sr., 3035 Kensington avenue, Philadelphia. Brick, 1 story, 50x112 feet, slag roof, cement floors. Contract awarded to Clayton & Clayton, 3012 Hartville street.

Residences (10), South side Devereaux street, West of Cottage, $5,500. Architect, private plans. Owner, W. H. Walters, 5517 North Fifth street, Philadelphia. Brick, 2 stories, 15x25 feet, 12x16 feet, slag roof, hot water heat. Contract awarded to F. Storkey, 1669 Bridge street, Philadelphia.

Residence, 746 Bainbridge street, Philadelphia, $3,500. Architect, private plans. Owner, A. Miller, 746 Bainbridge street, Philadelphia. Brick, 3 stories, 16x31 feet, slag roof, pine floors. Contract awarded to M. Rosenbeck, 709 Parrish street, Philadelphia.

Residence (alts. and add.), 234 Apsley street, Philadelphia, $3,000. Architect, private plans. Owner, Robert J. Ward, 206 South Thirteenth street, Philadelphia. Brick, 2 stories, 12x12 feet, general alterations. Contract awarded to Hugh J. Fulton, 5026 Locust street, Philadelphia.

Residence, Northeast Corner Linden and Torresdale avenues, $2,500. Architect, private plans. Owner, Mrs. Mary Gerden, on premises. Frame, 2 stories, 22x28 feet, pine floors. Contract awarded to Afton E. Rich, 1510 Cayuga street, Philadelphia.

Residence and Store (alts.), 1335 South street, Philadelphia, $3,000. Architect, private plans. Owner, D. Himles, on premises. General alterations. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

Garage, 5343 Baltimore avenue, Philadelphia, $2,000. Architect, private plans. Owner,

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John Swanson, on premises. Brick, 1 story, 18x30 feet, slag roof, cement floors. Contract awarded to Daniel F. Wholy, 1109 West Indiana avenue.

Residence and Store (alts.), 249 South Twelfth street, Philadelphia, $2,000. Architect, private plans. Owner, Dr. Benjamin L. Jordan, 1115 Spruce street, Philadelphia. General interior alterations. Contract awarded to Fred Gitterman, 3437 Ridge avenue, Philadelphia.

Garage, North side Bartram avenue, East of Seventy-ninth street, $2,500. Architect, private plans. Owner, A. Rosenberger, 16 South Eighteenth street, Philadelphia. Brick, 1 story, 38x25 feet, slag roof, cement floors. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Residence (alts. and add.), 422 East Wyoming avenue, $2,300. Architect, private plans. Owner, Samuel Packerman, on premises. Brick, 1 story, 16x10 feet, slag roof, yellow pine floors. Contract awarded to Samuel Cohen, 2620 North Twenty-eighth street, Philadelphia.

Shed, East side D street, South of Tioga street, $2,000. Architect, private plans. Owners, Brighton Worsted Mills, on premises. Brick, 1 story, 16x60 feet, slag roof, pine floors. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Residence and Store (alts.), 4307 Main street, Philadelphia, $2,000. Architect, private plans. Owner, Bernard Newman, 3128 West Columbia avenue, Philadelphia. General alterations. Contract awarded to Morris Karsh, 2530 North Patton street, Philadelphia.

PENNSYLVANIA Construction News

Cathedral, Altoona, Pa., $1,000,000. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, Cathedral of the Blessed Sacrament, Diocese of Altoona, Rt. Rev. Bishop John J. McCort, Altoona, Pa. Stone. Preliminary sketches submitted.

Garage, Berwyn, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick, steel and concrete, 2 stories, 60x110 feet, asphalt, slate, shingle roof, cement floors, fireproof partitions, plate glass, hollow metal doors, hollow metal sash, steam heating, electric lighting. Plans in progress. Architect will be ready for bids in two weeks.

Odd Fellows' Temple (alts. and add.), Manoa, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, I. O. O. F., Manoa, Pa. Brick and plaster, 2 stories, 32x40 feet, tin roof, hardwood floors, heating and lighting extensions, plastering. Plans in progress.

Stores and Apartments (alts. and add.), County Line, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, J. Trocenneli, on premises. Brick, 2 stories, 16x32 feet, slag roof, pine floors, heating extension, electric work, plumbing. Plans in progress.

Store and Apartments, Lancaster pike, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Nathan Harrison, Ardmore, Pa. Brick and steel, 2 stories, 10x75 feet. Revised plans in progress.

Residence, Drexel road, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Pentz Pippin, Ardmore, Pa. Stone and building block, 2½ stories, 38x25 feet, tile roof, hardwood floors, hot water heating, electric light, tile work. Plans in progress. Architect will be ready for bids in one week.

Stores (12) and Residences (9), Glenside, Pa. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16½x58 feet and 15x40 feet, slag roof, hardwood floors, hot water heating, electric lighting, metal ceilings, plate glass. Plans in progress.

Factory, Seventh and Weimer streets, Lebanon, Pa. Architects, Muhlenberg Brothers, 513 Penn street, Reading, Pa. Owner, H. W. Anthony, Strausstown, Pa. Brick, 2 stories, slag roof. Preliminary plans in progress.

Club House, near Reading, Pa. Architects, Muhlenberg Brothers, 513 Penn street, Reading, Pa. Owners, Reading Country Club, Mr. P. Schaeffer, secretary, Reading, Pa. Stone and frame. Preliminary plans in progress.

Comfort Station, Bingamon Street Bridge, Reading, Pa. Architect, Paul Huber, 230 North Sixth street, Reading, Pa. Owners, City of Reading, E. Elmer Dampman, City Hall, Reading. Hollow tile, 1 story, 11x30 feet, concrete roof and floors, electric lighting, plumbing. Plans in progress.

Factory, West Reading, Pa. Architect, H. G. Mohn, Mohnton, Pa. Owner, J. Biehl, Biehl's Wagon & Auto Body Works, 31 South Fifth street, Reading, Pa. Brick, steel, 2 stories, 85x200 feet, slag roof, pine floors, electric light, rolled steel sash. Plans in progress.

Residence (alts.), Front and Locust streets, Harrisburg, $7,000. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Richard Wharton, Patriot Building, Harrisburg, Pa. General interior alterations. Plans in progress.

High School, Enola, Pa., $50,000. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, East Pennboro Township School Board, Mr. Hoffman, secretary, Enola, Pa. Brick, 2 stories. Sketches in progress.

Bank (add.), Sixth and Maclay streets, Harrisburg, Pa., $25,000. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Camp Curtin Trust Co., R. Enders, president, on premises. Brick. Sketches in progress.

Moose Temple, Third and Boas streets, Harrisburg, Pa., $150,000. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Loyal Order of Moose, No. 107, J. A. Searfauss, 220 Boas street, Harrisburg, Pa. Architect selected.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, J. C. Motter, 925 North Front street, Harrisburg, Pa. Stone, 2½ stories. Sketches in progress.

Double Residence, Hummelstown, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, D. Cassel, Hummelstown, Pa. Frame, 2 stories, 30x36 feet, slate roof, pine floors, electric light, tile work. Plans in progress.

High School, Barnesboro, Pa., $100,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Barnesboro Township School Board, D. G. Anderson, secretary, care of architect. Brick, semi-fireproof, 2 stories, 160x86 feet, slag roof, maple floors, warm air heat, electric light, tile work, hollow tile, metal lath, roof ventilators, skylights, iron stairs. Plans in progress. Will take bids about December 18th.

Double Residence, Bellevue Park, Harrisburg, Pa. Architect, private plans. Owner, Frank Barley, Swatara street, Harrisburg, Pa. Stone, frame, 2 stories, 28x44 feet, slate roof, hardwood floors, steam heat, electric light. Plans in progress.

Laundry, Chestnut street, Reading, Pa. Architect, H. G. Mohn, Mohnton, Pa. Owners, George Hive Laundry Co., Reading, Pa. Brick, concrete, 1 story, 100x150 feet, slag roof, concrete floors, electric light. Plans in progress.

Theatre, near Reading, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owner, name withheld. Fireproof, 2 stories, 90x115 feet, composition roof, hardwood floors, electric light, tile and marble work, roof ventilators, hollow metal skylights. Plans in progress.

Bank and Apartment, near Reading, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owner, name withheld. Granite and terra cotta, 6 stories, 65x75 feet, composition roof, hardwood floors, steam heat, electric light, tile and marble work, rolled steel skylights. Plans in progress.

Community Hall, Riverside, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Riverside Hall Association, care of architect. Brick, concrete, steel, 2 stories, 40x110 feet, slag roof, pine floors, electric light, tile work, metal lath, dampproofing, ornamental iron work. Plans completed.

Residence, Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, H. B. Landis, Reading, Pa. Hollow tile, stucco, 2½ stories, 32x46 feet, tile roof, hardwood floors, vapor heat, electric light. Plans in progress.

Church, Grimsville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, New Bethel Zion Cong., care of architect. Stone, 1 story and basement, 110x60 feet, slate roof, pine floors, steam heat, electric light. Architect ready for bids due January 1st.

Residences (4), State street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, William E. Fleck, Lancaster, Pa. Brick and stucco, 2½ stories, 23x31 feet, tile roof, hardwood floors, hot air heat, electric light, tile work. Plans in progress. Owner will build.

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School, Duncannon, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Duncannon School Board, care of Mr. J. R. Rife, Market street, Duncannon, Pa. Brick. Sketches in progress.

Residence and Garage, North Front street, Harrisburg, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owner, J. P. Burns, 28-32 South Second street, Harrisburg, Pa. Brick, 2½ stories. Sketches in progress.

Church, New Freedom, Pa. Architects, Hamme & Whiteman, City Bank Building, York, Pa. Owners, St. John's Lutheran Church, care of architects. Brick, Indiana limestone, 1 story and basement, hardwood floors. Preliminary plans in progress.

Apartment (alts. and add.), Sixth street, Harrisburg, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owner, L. Cohn, 1006 North Sixth street, Harrisburg, Pa. Brick, 3 stories, 14x30 feet, slag roof, pine floors, steam heat, electric light, general interior alterations. Plans in progress.

Business Building, York, Pa. Architects, Hamme & Whiteman, City Bank Building, York, Pa. Owners, Manufacturers' Association, care of architects. Fireproof, steel and brick, 3 stories and basement, 60x65 feet, slag roof, hardwood floors, City steam heat, electric light, hollow tile, metal lath, tile and marble work, probably elevators. Plans in progress.

School (alts. and add.), Strasburg, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Strasburg School Board, care of Miss B. M. Aument, secretary, Strasburg, Pa. Brick, 2 stories, 40x60 feet, slate roof, maple floors, steam heat, electric light. Plans in progress.

Residence (add.) (Music Room), Camp Hill, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, Mrs. Richard M. Cadwalader, Camp Hill, Pa. Stone and cut stone, 1½ stories, 40x90 feet, slate roof, oak floors, indirect vapor heating, electric lighting extensions, tile work, metal casement windows, wainscoting. Plans about completed. Architets will take sub-bids in ten days.

Twin Residences (4), East Lansdowne, Pa. Architects and engineers, Jesse L. Stetler and Harvey M. Deysher, 1484 North Fifty-second street, Philadelphia. Owners, Mench & Manley, Fifty-ninth and Cedar avenue, Philadelphia. Frame and stucco, 2½ stories, 16x33 feet, shingle roof, pine floors, hot water heating, electric lighting, tile work. Owners are ready for sub-bids.

Residence, Carlisle, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, P. Edlinger, Carlisle, Pa. Brick, 2½ stories, 30x35 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

Residences (50), Collingdale, Pa. Architect, private plans. Owner, Christian Hanson, East Lansdowne, Pa. Brick, 2 stories, 17x40 feet, slag and shingle roof, hardwood floors, hot water heating, electric lighting. Owners will build and take sub-bids in spring of 1923.

Stores (3), Apartments (2), Bryn Mawr, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick and steel, 2 stories, 54x65 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, metal ceilings, metal bulks, plate glass. Plans completed. Architect will take general bids in one week.

Garage Storage Building, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Hale Motor Co., Ardmore, Pa. Brick, steel, concrete block, 1 story, 54½x145 feet, Certainteed built-up roof, cement floors, steam heat, electric light, hollow metal skylights and doors. Plans in progress. Architect will take general bids in one week.

Boys' Academy, Merion, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, Merion, Pa. Brick, steel, limestone, concrete and steel, 3 stories, 152x65 feet and 78x32 feet, slate and tile roof, reinforced concrete and oak floors, metal lath, metal ceilings, dampproofing and waterproofing, terra cotta, iron work and stairs, bond, copper skylights, tile, marble and terrazzo work. Architect taking bids due December 14th.

D. W. Jeffries School, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Brick, concrete, hollow tile, granite and steel, 2 stories, 64x211 feet, composition roof, concrete and maple floors, metal lath, dampproofing, iron work, bond. Owners taking bids due December 15th, 7.30 P. M.

Industrial School, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Brick, concrete, steel and granite, 2 stories and basement, 61x175 feet, composition roof, concrete and maple floors, metal lath, dampproofing, terra cotta, iron work, bond. Owners taking bids due December 15th, at 7.30 P. M.

Clayton School (add.), Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Brick, reinforced concrete and steel, 2 stories and basement, 25x96 feet, composition roof, concrete and maple floors, metal lath, iron work, bond. Bids due December 15th.

Joseph Smedley School, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Reinforced concrete, brick, granite and steel, 2 stories and basement, 212x138 feet, slag and composition roof, cement and maple floors, hollow tile, metal lath, roof ventilators, dampproofing, terra cotta, iron work, bond ,terrazzo work. Bids due December 15th.

Bank, York, Pa. Architects, Gemmell & Billmyer, York, Pa. Owners, First National Bank, York, Pa. Brick, steel, granite and reinforced concrete, 3 stories and basement, 103x35 feet, built-up asphalt roof, cement and cork floors, metal lath, roof ventilators, waterproofing, dampproofing, terra cotta, iron work, floor hardener, bank fixtures, hollow metal sash and doors, rolled steel skylights, tile and marble work, demolition, steam heating, electric lighting. Architects taking bids due December 16th.

Residence, New Cumberland, Pa. Architect, E. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Charles Miller, Harrisburg, Pa. Brick, 2 stories, 24x40 feet, slate roof, hardwood floors, electric light. Owner will build.

Junior High School, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Brick, hollow tile, granite and steel, 2 stories and basement, 143x45 feet, composition roof, cement and maple floors, metal lath, dampproofing, terra cotta, iron work. Bids due December 15th.

Garage, Haverford, Pa. Architects, Bailey & Bassett, 421 Walnut street, Philadelphia. Owners, Merion Cricket Club, Haverford, Pa. Stone, cut stone and steel, 1 story, 60x120 feet, slate roof, cement floors, roof ventilators, steam heat, electric lighting, bond, iron work. Architect taking bids due December 14th.

Armory, Wilkes-Barre, Pa. Architect, Thomas H. Atherton, Jr., Wilkes-Barre, Pa. Owners, Armory Board, State of Pennsylvania, Adjutant General's Office, Harrisburg, Pa. Brick, reinforced concrete, cut castone and steel, 1 and 2 stories, 213x262 feet and 141x43 feet, asphalt and slag roof, wood, composition, concrete and pine floors, metal lath, waterproofing, iron work, floor hardener, bond, rolled steel sash (heating, electric lighting and plumbing separate bids). Owners taking bids due December 18th.

Garage, 15 Nyack avenue, Lansdowne, Pa.

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Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, I. Fleming, on premises. Brick, 1 story, 25x40 feet, tin roof, cement floors, hot water heating, electric lighting. Architect taking bids due December 16th.

Factory, Lancaster, Pa. Arhitect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Andes Mfg. Co., Ann and Chestnut streets, Lancaster, Pa. Brick, mill work, 1 story and basement, 30x90 feet, slag roof, mill floors, steam heat, electric light, rolled steel sash. Owners taking bids.

Residence and Garage, Malvern, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, W. Bingham Kay, care of architect. Frame or hollow tile and stucco, 2½ stories, 30x40 feet, and 1 story, 20x20 feet, composition slate roof, hardwood, pine and cement floors, steam vapor heating, electric lighting. Architect taking bids due December 18th at noon.

Grand Stand and Stable (add.), Devon, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Devon Horse Show Association, Devon, Pa. Frame, 1 story, 30x20 feet, slag and shingle roof, hollow tile, metal lath, painting, hardware, plastering, plumbing. Architect taking bids due December 18th.

Residence, No. 1, Haverford, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Brick, hollow tile, plaster and cut stone, 2 stories, 94x27 feet, slag and shingle roof, oak and pine floors, iron work, tile work (heating, electric work and plumbing reserved). Architect taking bid from John E. Kearney, 34 South Seventeenth street, Philadelphia.

Bungalow, Fort Washington, Pa. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Frame and stucco, 1½ stories, shingle roof, hardwood floors, hot air heating, electric lighting. Preliminary plans in progress.

Pennsylvania Contracts Awarded

Residence, Penfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Thomas Barris, 4045 Green street, West Philadelphia. Frame and stucco, 2½ stories, 25x55 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work, cement work. Contract awarded to Suburban Const. Co., Ardmore, Pa.

Garage, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, William Simpson, Ardmore avenue, Ardmore, Pa. Tapestry brick, reinforced concrete and steel, 1 story, 50x75 feet, slag roof, cement floors, hot water heating, electric lighting. Contract awarded to Adolph Korn & Co., 1726 Sansom street, Philadelphia.

Garage and (2) Greenhouses, Wyncote, Pa. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owner, John S. Bush, Wyncote, Pa. Brick, steel, concrete and stone, 1 story, 30x51 feet, and (2) 66x25 feet, slate roof, cement and pine floors, bond, iron work, floor hardener. Contract awarded to Frank G. Stewart, 1619 Sansom street.

Twin Residence, Brookline. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Frank G. Glase, care of builder. Stone, 2½ stories, 38x44 feet, cement tile roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Contract awarded to Main Line Const. Co., Ardmore, Pa.

Residence, Haverford, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Mrs. Ziba T. Moore, Haverford, Pa. Brick, 2½ stories, 40x26 feet, shingle roof, hardwood floors, hot water heating, electric lighting. Contract awarded to Joseph E. Pennock, Land Title Building, Philadelphia.

Apartment (alts.), Lancaster, Pa., $15,000. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, W. H. Hollinger, Lancaster, Pa. General interior alterations, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster, Pa.

Warehouse and Sales Room, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Advance Rumley Thresher Co., care of architect. Fireproof, steel, 1 story, 100x150 feet, slag roof, concrete floors, electric light, rolled steel sash, roof ventilators. Contract awarded to Charles Strayer, Green and Forster streets, Harrisburg, Pa.

Bank (alts. and add.), Carlisle, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Farmers' Trust Co., W. Stuart, president, Carlisle, Pa. Brick, hardwood floors, tile, marble and terrazzo work, roof ventilators, rolled steel skylights, ornamental iron work. Contract awarded to G. W. Brindle, Carlisle, Pa.

Church (alts.), North Wales, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Peter's Lutheran Church, care of Rev. Andrew Tapper, North Wales, Pa. General interior alterations. Contract awarded to W. D. Lukens, North Wales, Pa.

Residence (alts.), Wynnewood, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Philip Kass, Wynnewood, Pa. General alterations and additions. Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Road Work, Pennsylvania. Owners, State Highway Department, Capitol Building, Harrisburg. Armstrong County, Route 214, Brady's Bend Township, length 22,107 feet. One course reinforced concrete, $206,762.40. Contract awarded to David Schoentag, Saugerties, N. Y.

New Jersey Construction News

High School Building, Haddon Heights, N. J., $350,000. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Haddon Heights, N. J. Brick, steel, reinforced concrete and limestone, 2 stories and basement, 154x215 feet, slag roof, cement floors, electric lighting. Plans in progress. Architects will be ready for bids early in January, 1923.

Grade School, Thirty-sixth and Westfield streets, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Board of Education, Camden, N. J. Architects selected. Too early for details.

Kiln Shed, Lalor street, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Equitable Plant, Trenton Porcelain Co., 803 East State street, Trenton, N. J. Brick, 1 story, 150x44 feet, slag roof, concrete floors, metal lath, electric light, rolled steel sash, fire doors. Architect taking bids due as soon as possible

School, Blue Anchor, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, Horace Angelow, secretary, Blue Anchor, N. J. Brick, 1 story, 51x82 feet, asphalt shingle roof, hardwood floors, electric light, skylights, cast stone, waterproofing and dampproofing. Architect taking bids due December 15th.

School (add.), Winslow, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, Horace Angelow, secretary, Blue Anchor, N. J. Frame, 1 story, 39x26 feet, shingle roof, hardwood floors, tile work, electric light, skylights. Architect taking bids due December 15th.

Tenant House and Garage (alts.), Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Benjamin S. Mechling, Riverton, N. J. General alterations, plumbing. Architect taking bids due as soon as possible.

High School, Camden, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Board of Education, Camden, N. J. Owners taking bids due December 26th.

New Jersey Contracts Awarded

School, Rosenahyn, N. J. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Deerfield School District, Woodruff Station, N. J. Brick, frame, steel and concrete, 1 story, 47x79 feet, shingle roof, pine floors, metal lath, bond, iron work (heating, lighting and plumbing reserved). Contract awarded to H. H. Hankins & Brother, Bridgeton, N. J. Heating and ventilating to Graham & Fieri, Vineland, N. J.

Residence, Beechwood avenue, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Miss Gertrude Woolsey, 46 Montgomery Place, Trenton. Frame, 1½ stories, 32x33 feet, shingle roof, hardwood floors, hot air heating, electric lighting. Contract awarded to O. F. Johnes, P. O. Box 463, Trenton, N. J.

Residences (2), Hewitt street, Trenton, N. J., $6,000. Architect, private plans. Owner, Mary A. Whittaker, 323 Berwyn street, Trenton, N. J. Frame, brick, 2½ stories, 12½x44 feet, slate and tin roof, pine floors, electric lighting. Contract awarded to John Mihatik, 132 Hewitt street, Trenton.

Factory (add.), New York avenue, Trenton, N. J., $9,000. Architect, private plans. Owners, Electric Porcelain Co., 747 New York avenue, Trenton. Brick and iron, 74x140 feet, slag roof, concrete floors. Contract awarded to H. A. Taske, 195 Passaic avenue, Trenton.

Delaware Construction News

School, Claymont, Del. Architects, Coffin & Coffin, 522 Fifth avenue, New York. Owners, Board of Education of Claymont, care of Delaware School Auxiliary Association, 8124 Dupont Building, Wilmington. Brick and concrete, 2 stories, 286x69 feet, auditorium and gymnasium, 75x66 feet (heating and ventilating, plumbing, electrical work separate bids). Architectural terra cotta, built-up roof, waterproofing, dampproofing, terra cotta, cement, tile and terrazzo floors, cement hardener, marble work, slate work, slate blackboards, iron and steel, iron stairs and ladders, flag pole, wire guards, fire doors, dumb waiter, kalamein doors and frames, metal lath, metal ceiling, saw-tooth skylights. Owners taking bids due January 8th.

Consolidated School, Dover, Del. Architect, Willia Heyl Thompson, 1211 Walnut street, Philadelphia. Owners, Dover Special School District, William B. Thornburgh, secretary, Dover, Del. Brick, concrete, precast and cut stone and steel, 2 stories, 224x80 feet, slate and slag roof, cement and maple floors, metal lath, safety treads, waterproofing, iron work,

bond, kalamein doors, rolled steel skylights, steam heating, electric lighting. Owners taking bids due January 1st.

Delaware
Contracts Awarded

Store Building, Van Dever and Pine streets, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Daniel Levine, 529 Van Dever street, Wilmington, Del. Brick, 1 story, 30x48 feet, rubberoid roof, hardwood floors, hot water heat, electric light, plate glass, metal ceilings, ornamental iron work. Contract awarded to F. G. Krapf, Wilmington, Del.

Church and Sunday School, Dover, Del. Architects, Charles W. Bolton & Sons Co., Witherspoon Building, Philadelphia. Owners, Dover Presbyterian Church, Rev. J. Bursten, Dover, Del. Brick, 1 story. Contract awarded to W. M. Newton, Dover, Del.

Miscellaneous
Construction News

Church, Baltimore, Md. Architect, J. A. Dempwolf, Centre Square, York, Pa. Owners, Church of Our Saviour, Rev. T. C. Serger, Baltimore, Md. Stone, 1 story and basement, 120x50 feet, slate roof, hardwood floors, hollow tile, electric light, metal lath, tile and marble work, leaded glass, ornamental iron work, waterproofing and dampproofing. Owner taking bids due December 30th.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 29, 1922. Sealed Proposals will be opened in this office at 3 P. M., December 27, 1922, for the construction, including mechanical equipment, of the United States Post Office, at Leesburg, Va. Drawings and specifications may be obtained from the Custodian of the site at Leesburg, Va., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 792)

the Board of Education. The latter body held a further examination and passed on six from which one man was selected to be the practical advisor of the boys taking apprenticeship under this plan so far as the painters and decorators are concerned. The Building Congress also appointed a trade annalist to assist in placing the boys properly where they would gain the most knowledge and where their work would be of the utmost value to the cause.

The Carpenters' Union have adopted a similar program with slight reservations, and now have 325 apprentices in the City of New York.

The New York Building Congress urged the Board of Education to maintain their appropriation of $50,000 to carry on the night school work for the ensuing fiscal year, which they did, and likewise added $20,000 for other special work in this connection, making a total sum available of $70,000 for the apprenticeship work in New York City for the coming year.

Sheet Metal workers have had for some time a real apprenticeship program and their work is financed by the employers giving $20,000 and labor giving a like amount on which they operate their Union School. Their records show that out of 200 boys, 180 of them had 100% attendance. If they do not attend school or are unsatisfactory, they do not get the new cards which are issued to them and which entitle them to an automatic increase in wages. The New York Building Congress has established permanent headquarters in the Grand Central Station and they act at this office as a general clearing house for all the boys in apprenticeship work which come under their jurisdiction. They place boys in school, keep records of their progress, place the boys with the employer when ready, and move them from one employer to another, as may be to the best interest of the boy.

The electrical workers are about to adopt the Building Congress program, similar to the ones now in vogue for the carpenters, painters and decorators.

The plumbers are taking up this matter and have already appointed Committees of four from the Masters and four from the Journeymens to discuss the apprenticeship work with the Apprenticeship Committee of the Building Congress.

Mr. Moran at this point announced that each trade sets their own standards.

The goal is for continuous employment and the only obstacle which they have found in New York City is, the trouble to get individual employers to put on apprentices when they can. When the apprentice is discharged, it is up to the Building Congress to locate him a new job. The Building Congress is against the specialization in the trades and for that reason they would not allow a boy to remain too long in any one shop when they find out that his chance to learn more of the trade is being jeopardized.

Mr. D. Knickerbacker Boyd, President pro tem of the Philadelphia Building Congress, read a letter to Mr. Charles F. Bawder, Director of Industrial Arts of the Philadelphia Board of Education, which set forth the fact that at a special Committee Meeting, represented by three of the Master Plasterers, three of the journeymen plasterers and five of the Building Congress it was unanimously agreed that the Master Plasterers' Association and the Operative Plasterers' Protective Association would co-operate to the fullest extent possible with the Board of Education in conducting classes for plasterers, both apprentices and journeymen, and will see to it that sufficient and properly equipped persons shall be available and that instructors and the necessary tools would be furnished.

Mr. Bawder announced that the Board of Education are ready to act and are now seeking class rooms suitable for the establishment of the training classes in plastering apprentices and that he had the assurance of co-operation of the Superintendents of the Board.

CONFERENCES ON HOUSING

(Extract from the forthcoming annual report of the Secretary of Commerce for the fiscal year 1921-22)

The shortage of some 1,000,000 dwellings as a result of suspended construction during the war led to widespread demand for Federal legislation and assistance. Under an appropriation from Congress an investigation of the situation and possible remedies was made by this department. During the process of the inquiry numerous conferences were held with the various branches of the building industry and with representatives of municipal and civic bodies. It appeared that the retardation was due to (a) the acute credit situation; (b) high prices of material and labor; (c) unsavory business ethics in certain localities; (d) wasteful practices in their contribution to costs.

It was concluded that the first two causes would in the main cure themselves by the general fall in prices then in progress. The third could only be cured by vigorous action of the Federal and State authorities, a large measure of which has been accomplished. It was concluded that emergency legislation or Government finance was not desirable and that except for a vigorous support of the proper co-operative service indicated below, the Government should keep out of the housing business.

It was considered on all sides that real service could be accomplished in a general aid by the department to the creation of, and assistance to, the already existing voluntary bodies permanently engaged in developing home ownership. A small division was created in the department the purpose of which was to stimulate such local activity by acting as a clearing house of ideas and information. One result has been the creation of voluntary bureaus in many municipalities for advancement of home ownership and where advice on finance and aid by furnishing designs and specifications of small houses could be obtained at a nominal charge.

Systematic measures of co-operation were set in motion in trade and civic bodies for the eliminating of waste in various directions, and thus a reduction

of construction costs. Typical among the latter activities was the appointment of a committee from representatives of the important professional and civic associations to formulate a standard building code, as it was the general concensus of opinion that the varying regulations in force in hundreds of different municipalities, founded as they were without scientific study, had imposed an unnecessary cost upon building of from 10 to 20 per cent. Before the drafting of the recommended code for small houses, a large amount to experimental work was carried on in the Bureau of Standards, and suggestions obtained from over 100 different municipalities. A tentative draft was then submitted to some 975 engineers, architects, municipal officials, and representatives of the building industry, whose useful criticisms were incorporated in the final draft. The code is already being adopted in some municipalities. Work in elimination of waste, in advancing voluntary standardiation and inspection of qualities and grades, in elimination of unnecessary variation of dimensions of building materials, and in the simplification of specifications have been undertaken by experts from the department at the request of an acting in cooperation with building material, contractors and consumers' associations, with gratifying results.

THIS year we are experiencing phenomenal winter activity in the building game. Not only in Philadelphia, but throughout the country there is little sign of any seasonal curtailment of construction work. Of course, the contractor has lately learned some very valuable lessons in the matter of winter building. A few years ago, the large building program being carried on this winter would have been thought most inadvisable if not impossible. Of course prices will be high. Added precautions, necessary in cold weather; high wages being paid; scarcity of materials and transportation facilities all add cost to the jobs planned for the winter. So far the weather has been all in the favor of the builder and much winter work has been gotten well under way before any really freezing weather has made progress difficult. In Philadelphia twenty-five hundred houses, more than the yearly average, will be erected this year. The average is 7,200, and so far permits have been issued for erection of 9,318 dwellings of the one, two, and three-story type, costing $46,433,620. Tenements and rooming houses, which were known as apartment buildings until a recent act of the Legislature drew a distinction, bring the housing total up to 9,374 buildings costing $50,354,620. Permits were issued for 560 houses, costing $3,379,050, for November.

Estimated cost of all building for which permits were issued for the eleven months of this year is $106,913,680, which is nearly three times the total for the same period of 1921. There is an increase of 1,747 permits, making the total for all classes of construction 21,394.

While dwelling construction predominates, as has been the rule throughout this year, several other classes are active, principally factories and hospitals. Nine manufacturing buildings estimated to cost $1,361,500 were started last month. Garages, too, continue to be active, permits having been issued for 164 to cost $498,585. Garages in the basements of new dwellings are not included in this total.

A statment, compiled by William Gamble, statistican, Bureau of Building Inspection, follows:

Character	Permits	Operations	Est. Cost
Dwellings, 1 story	2	2	$3,000
Dwellings, 2 story	101	507	2,757,105
Dwellings, 3 story	15	40	386,000
Dwellings, frame	8	9	42,900
Tenement house	1	1	150,000
Apartment house	1	1	40,000
Stable	1	1	1,600
Manufactories	9	9	1,361,500
Workshops	7	7	21,300
Garages	150	164	498,585
Office buildings	5	5	503,700
Stores	8	8	303.150
Warehouses	5	5	87,000
Schools	2	2	735,000
Hall	1	1	35,000
Municipal building	1	1	14,500
Hospital	1	1	1,400,000
Clubhouse	1	1	132,000
Band buildings	3	3	805,000
Places of amusement	2	2	841,000
Miscellaneous buildings	12	12	23,500
Additions	196	203	724,590
Alterations and repairs	363	376	473,440
Miscelleanous work	131	134	27,320
Heaters	1	1	6,075
Fire escapes	12	12	4,840
Signs	37	40	17,680
Totals	1,088	1,558	$11,416,730

PRESIDENT HARDING CONFERS DISTINCTION ON PHILADELPHIA ARCHTECT

President Harding recently announced the appointment of Milton B. Medary, Jr., prominent Philadelphia architect, as a member of the Federal Commission of Fine Arts, to succeed John Russell Pope, whose term recently expired.

Mr. Medary collaborated in preparing tentative and preliminary plans for the Sesqui-Centennial Exposition.

He was educated in the University of Pennsylvania School of Fine Arts and has been practicing his profession in Philadelphia for more than twenty-five years. He was at one time second vice president of the American Institute of Architects and also president of the T-Square Club of Philadelphia, and is a member of the Commission on Church Buildings of the Episcopal Church for the Diocese of Pennsylvania and chairman of the Committee on Designs of Workingmen's Villages, United States Department of Labor.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

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Weil, J. H., Co. .....1304 Arch St., Phila.

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Weil, J. H., & Co. .....1304 Arch St., Phila.

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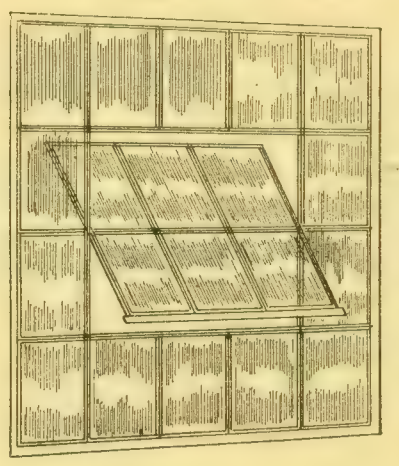
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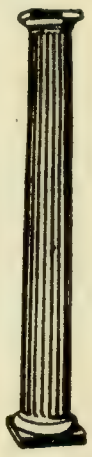
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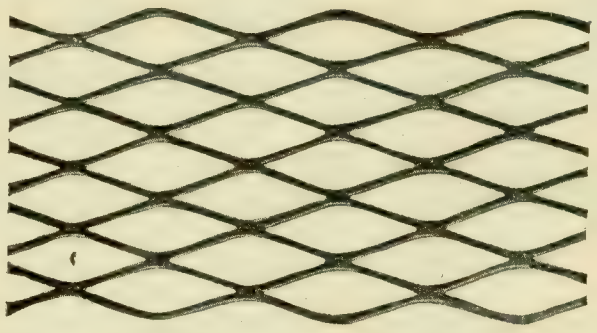


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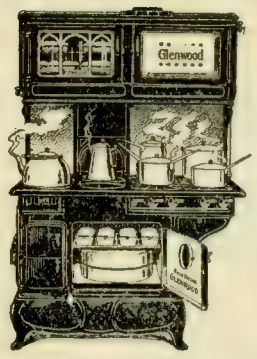
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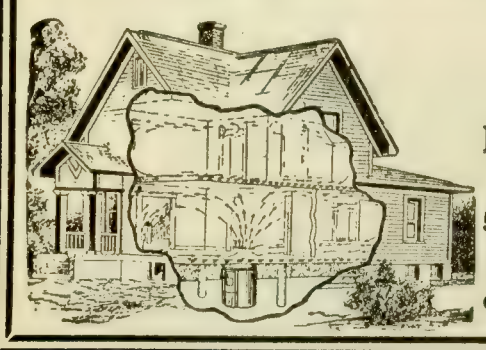
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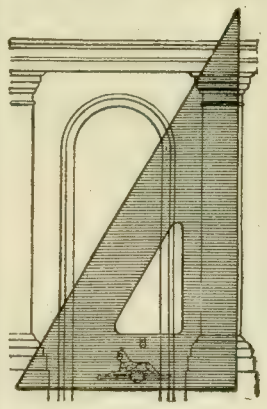
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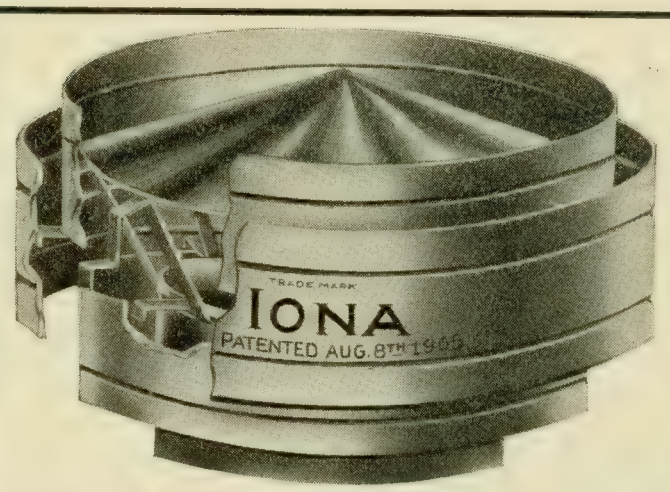
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VOLUME XXXVII
Number 51

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December 20, 1922

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As The Editor Sees It

INDUSTRY of all kinds is still facing a serious shortage of both skilled and common labor. Steps being taken to make apprenticeship attractive were discussed at length in the GUIDE several weeks ago. This work is still going forward. From many localities come encouraging reports of methods being tried which will enable these communities to take full advantage of the Smith-Hughes law. Of course, these experiments are in their infancy, but they are steps in the right direction and much good should result from efforts along these lines.

So far as common labor is concerned nothing is being done to relieve this shortage. So many more laborers have left the country than have come in that the shortage is assuming alarming proportions. The only solution to this problem is a revision of the present restrictive immigration laws. According to *Manufacturers' News*, during the 13 months ending July 31, 1922, only 40,098 common laborers came into the country, whereas 105,105 left America, leaving a shortage of 65,007. William Nelson Pelouze, Chicago, President Pelouze Manufacturing Company, writes the *News* that,

I know of no subject that should be of more vital interest to the people of the United States today than that which relates to the matter of immigration. The present immigration laws are entirely too restricted and are inadequate to meet our present economic conditions.

There is an urgent need for an increased supply of unskilled labor. This class of labor today, owing to its scarcity, is receiving skilled wages. The country is in dire need of what is usually known as common labor, for employment in our industries, on the farm and in the building of our roads and the cleaning of our cities.

The cost of living is absolutely dependent upon the law of supply and demand. The labor cost in everything produced is of such a high percentage in proportion to the material itself, that it would seem to behoove our government to adopt the only sure method of reducing the high cost of living, by enacting an immigration law that will permit of a larger supply of labor in all branches where a known shortage exists and is sorely felt.

William Butterworth, Moline, President, Deere and Company, writes concerning the immigration law:

We should like to see the law revised so that—

(a) Immigration would be handled through a non-political commission.

(b) The selection of immigrants to be made on the other side.

(c) The number to be admitted annually or semi-annually to be varied by the demands here.

(d) A requirement placed on each male immigrant to become a producer.

(e) The demand for labor on the part of any industrial or farming community should be cleared and approved first by locality or district, second by state, and third nationally, before a shortage of labor could be declared.

(f) Great care should be exercised by our government in selecting the right immigration and seeing that it becomes properly placed, and that such immigrants are followed up to insure that they are properly placed and on the way to be assimilated into American life.

FIRE RESISTIVE QUALITIES OF FRAME BUILDINGS PROTECTED BY STUCCO AND PLASTER ON METAL LATH

By WHARTON CLAY, *Commissioner Associated Metal Lath Manufacturers*

Ever since its advent into the building field thirty years or more ago, metal lath has been recognized as a superior base and reinforcement for plaster. Its original use was for solid and hollow partitions, curved ceilings and a base for ornamental plaster work in fire resistive buildings, but since its crack prevention ability was recognized, and as good quality of wood lath became more and more difficult to secure, it has come to be used with increasing frequency as a base for plaster in wood joisted or frame buildings. In the early days fire prevention was little thought of and

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our great national fire waste was not realized by the general public or by the insurance companies, or even by building officials themselves. Years ago, however, building codes began to call for metal lath as a protection over furnaces, behind stoves, around chimney breasts and on positions where the very nature of all other plaster bases made the desirability of metal lath most apparent.

As the fire prevention societies began studying these questions, they immediately took up the recommendation of metal lath and have consistently carried these recommendations out in their writings. However, the dependents upon metal lath, and its relative superiority over other lathing bases was largely a matter of experience in the field where many notable instances were encountered in which metal lath stopped fires. It was also largely based upon "horse sense" from a knowledge of the material itself, its incombustibility and its ability to hold the plaster in place with the minimum of cracking and the maximum of bonding or keys.

As the expense of testing materials for their resistive features is so great, the building fraternity has been denied scientific comparison between materials and even today the published information on tests, is inadequate and there is not anywhere an unbiased list of the actual duration under standard fire test conditions of even the materials which have been tested. It is, therefore, very timely and I am very glad to be in a position to announce for the first time, the results of a series of tests at the Underwriters' Laboratories on metal lath and plaster and stucco.

Before going into detailed information on this, however, I wish to make a few observations: Considerations of fire resistive qualities of various constructions are based upon several factors. The insurance company which bases the insurance loss has different considerations to weigh from those of the building official. The building officials' consideration is primarily safety to life and secondarily safety to property. The underwriters must consider first of all the question of minimizing the spread of fire within its place of origin, so that the dollar and cents loss will be low, but they are also just as much concerned with the salvage value of the property. Therefore, they have always given a greater consideration, (by lower insurance premiums), to the masonry wall building than to the frame wall dwelling, even though the interior construction may be identical.

In fact the latest statistics indicate greater percentage of fires in masonry walled than frame walled buildings of the same inferior construction. The underwriter has also been justified in this by the factor of communication of fires, —not so much from a question of the actual communication of the fire as from the question of the greater damage to painted siding than to masonry if a fire be in the vicinity. For if the fire is really severe, it will enter by the unprotected windows anyway. The lower insurance rate on masonry has lead many people to ... greater security from fire in a masonry than in a frame house when, as a matter of fact, they are about equal as regard to safety to life, which is the building official's prime concern.

Perhaps safety from communicating fires is not far from equal, if the masonry walls do not have protected window openings. This has been demonstrated in a very spectacular way in the recent ten million dollar fire in Chicago, where the communication was largely through unprotected openings in heavy masonry walls and finally reached the first-class "fireproof" Burlington office building where the interior damage was about the same extent as it would have been in any other kind of building.

In fact, the general misunderstanding as to the superiority, from a fire protection standpoint, of masonry walls over other walls, led to a very kindly note of caution to the Brick Manufacturers by Prof. I. H. Woolson, Consulting Engineer of the National Board of Fire Underwriters, at one of their annual conventions. Prof. Woolson said in part:

As usually constructed, I doubt if the average brick building as a whole has a fire resistance of over 10 per cent. of that of its walls. This is discreditable to our engineering and architectural intelligence, and productive of shameful economic waste of manufactured resources.

I hope to win your aid in securing the introduction of such proper construction straws into brick buildings as will make them really efficiently fire-resistive.

Let me say, right here, that the defects which I shall criticise are by no means peculiar to brick buildings. They are just as prevalent in hollow tile, stone and concrete buildings.

Millions of bricks are used each year in buildings of simple architecture and modest cost. They are undoubtedly less liable to complete destruction by fire than wooden buildings, but are by no means as fire-resistive as they should be, nor are they as safe as the public is taught to believe.

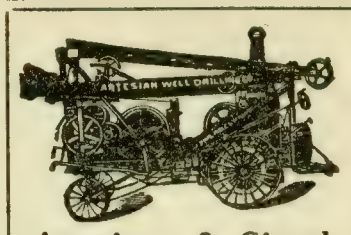
Let us give prompt praise to the brick industry for their co-operation. The Common Brick Association issues a pamphlet with each one of the plans which they sell, stating as follows:

It is not the intent of those advocating brick side walls to give a false sense of safety to the occupants of such a house. The interior partitions, the floors, the roof and basement ceilings are all subject to attack by fire, and the most in-

(Continued on page 818)

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Residences and Garage (28), Fifty-fourth and Montgomery avenue, $275,000. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, Sylvania Realty Cont. Co., 3 North Nineteenth street, Philadelphia. Brick, 2 stories, 16x43 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, garages in basements. Plans in progress.

Residences and Garages (12), Sixty-eighth street, Upland street and Kingsessing avenue, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, hardwood and pine floors, hot water heating, electric light, cement work. Plans in progress.

Residences (29), Eighteenth and Medary avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Charles A. Mahon, 5530 North Fifth street, Philadelphia. Brick, 2 stories, 16x38 feet, slate and slag roof, hardwood and pine floors, cement floors, hot water heating, electric lighting, tile and marble work (garages in basements). Plans in progress. Owner will be ready for sub-bids in one week.

Building, 41 North Seventh street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Morris Sklar, 1020 Arch street, Philadelphia. Details undecided. Plans in progress.

Building (alts.), Broad and Manning streets, Philadelphia. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owners, Community Trust Co., care of architect. General alterations. Plans in progress.

Twin Residence, Lincoln Drive, Philadelphia. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, Harry D. Carson, care of architect. Stone and stucco, 2½ stories, 40x46 feet, slate roof, pine and oak floors, iron work, hot water heating, electric lighting, tile work. Architect will be ready for bids in ten days.

Stores (2) and Residence, Sixty-eighth avenue and York road, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Theodore M. Boesch, Otis Building, Philadelphia. Brick, 2 stories, 18x60 feet, slag roof, pine floors, metal ceilings, metal bulks, plate glass, hot water heat, electric lighting. Owner will take bids.

Building (add. and alts.), 1226 Ridge avenue, Philadelphia. Architects, W. Macy Stanton and Stanley Potter Stewart, 1524 Chestnut street, Philadelphia. Engineers, Marshall & Pennell, 1524 Chestnut street, Philadelphia. Owner, Parkway Baking Company, premises. Reinforced concrete, brick and steel, 2 stories, ground floor and basement, 97x87x39 feet, irregular, composition roof, maple and cement floors, metal lath, floor hardener, fire doors, rolled steel sash and skylights, demolition (heating, electric work and plumbing reserved). Architects taking bids due December 27th.

Building (alts. and add.), 224 to 230 South Broad street, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owner, A. M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick, cut stone, steel and granite, 4 stories, 40x26 feet, tin roof, composition, cement and maple floors, metal lath, dumb waiters, waterproofing, iron work, floor hardener, bond, kalamein doors and sash, tile and marble work, demolition. Architects taking bids due December 21st at noon.

Rebuilding Shelter over coal pockets, between Berks and Norris streets, East of P. G. N. Elevated and P. and R. R. R. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Carpentry, mill work, 46x450 feet, slag roof, bond, iron work. Owners taking bids due December 22nd.

Store (alts.), Harrison and Griscom streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Miss C. L. Weidenmiller, care of architects. Brick work, concrete and cement work, cut stone, steel and iron work, slag roof, hot water heating, electric lighting, tile work, plumbing, painting. Architects taking bids due December 29th.

Supplies, Purchasing Agent, Philadelphia. Owners, City of Philadelphia, Office of Purchasing Agent, Thomas F. Armstrong, 312 City Hall, Philadelphia. Asphalt sand, binder stone, limestone dust and asphalt cement. Owners taking bids due December 28th at noon.

Service Building, 3020-32 Market street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Reynold H. Greenberg, Morris Building, Philadelphia, for Guy A. Willeys Motor Co., Broad and Vine streets. Brick, cut stone, terra cotta and steel, 4 stories, 220x122 feet, slag roof, cement floors, dampproofing, iron work, bond, hollow metal skylights, rolled steel sash, marble and terrazzo work, demolition. Architect taking bids due December 26th.

Supplies and Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Frank R. Caven, Director, 216 City Hall, Philadelphia. Grading, asphalt paving, grading and improvement on Bensalem Branch of the Roosevelt Boulevard, steel percolator tanks, vitrified pipe conduits. Owners taking bids due December 28th at noon. Inquire Room 232.

Residences (20), 5400-38 Woodcrest avenue, Philadelphia, $282,000. Architect, private plans. Owner, Daniel Crawford, Jr., 3904 Chestnut street, Philadelphia. Stone, 3 stories, 21x50 feet, slate roof, hot water heat, electric light, oak and pine floors, tile work. Owner will build.

Garages (2), West side Leiper street, North of Arrott street, Philadelphia, $18,000. Architect, private plans. Owner, William R. Bratton, 4803 Leiper street, Philadelphia. Brick, 1 story, 35x175 feet and 17x175 feet, slag roof, cement floors, electric lighting. Owner will build.

Building (fire repairs), Northwest Corner Twenty-ninth and Ellsworth streets, $8,000. Architect, private plans. Owner, John J. Wilson, on premises. General repairs, carpentry, mill work, painting, plastering. Owner will build.

Store and Storage Building (add.), Southwest Corner Moyamensing avenue and Iseminger street, Philadelphia, $7,000. Architect, private plans. Owner, J. Colamin, 102 Shunk street, Philadelphia. Brick, 2 stories, 39x12 feet, 31x35 feet, slag roof, pine floors, electric lighting. Owner will build.

Store, Storage and Office (add. and alts.), 1809-11 Callowhill street, Philadelphia, $5,000. Architect, private plans. Owners, Smith-Hardican Co., 1606 Cherry street, Philadelphia. Brick, 2 stories, 32x40 feet, slag roof, steam heat, electric light, yellow pine floors. Owners will build.



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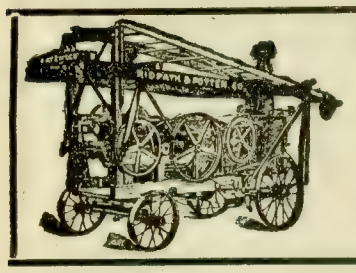
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Office (add.), 815 East Chelten avenue, Philadelphia, $3,000. Architect, private plans. Owners, Parker & Spaeth, 2012 East Chelten avenue, Philadelphia. Brick, 1 story, 15x14 feet, slag roof, pine floors, electric light. Owner will build.

Poultry and Slaughter House (add.), 3726 Poplar street, $3,000. Architect, private plans. Owner, Harry Beiderman, 843 North Fortieth street, Philadelphia. Brick, 1 story, 16x55 feet, slag roof, cement floors. Owner will build.

Garage, 17-19-21-23 East Upsal street, Philadelphia, $2,000. Architect, private plans. Owner, Daniel Josephson, 5405 Walnut street, Philadelphia. Brick, 1 story, 80x18 feet, slag roof, cement floors. Owner will build.

Store (add.), 929 South Fourth street, Philadelphia, $2,000. Architect, private plans. Owner, David Felsher, 5832 Catharine street, Philadelphia. Brick, 3 stories, 20x26 feet, slag roof, pine floors. Owner will build.

Garage, East side Oxford avenue, South of Cottman street, $2,000. Architect, private plans. Owner, Harry Smith, 1016 Cottman street, Philadelphia. Brick, 1 story, 23x54 feet, slag roof, cement floors. Owner will build.

Boiler House, Southeast Corner Swanson and Ritner streets, $2,000. Architect, private plans. Owners, Charles Johnson Co., on premises. Iron, 1 story, 15x30 feet, corrugated iron siding and roof. Owner will build.

Stable, South side Bell Mills Road, West of Germantown avenue, $2,000. Owner, Frank K. Stahl, 2711 North Park avenue, Philadelphia. Stone, 1 story, irregular size, slate roof. Owner will build.

Residences (25), Beaumont avenue, between Fifty-fifth and Fifty-sixth streets, $102,000. Architect, private plans. Owner, R. H. Pugh, Ridge and Girard avenues, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, oak and pine floors, hot water heating, electric lighting, tile work. Owner will build.

Warehouse, Broad street, South of Curtin street, Philadelphia, $10,000. Architect, private plans. Owners, E. H. Vare Const. Co., 1120 Race street, Philadelphia. Corrugated iron, 1 story, 75x400 feet, cement floor. Owners will build.

Fire Houses (2) (alts.), No. 18, 1920 Callowhill street, and No. 30, 3546 Germantown avenue, Philadelphia. Architect, private plans. Owners, Department of Public Property, Bureau of Public Safety, F. H. Caven, Director, 216 City Hall, Philadelphia. General alterations. Owners taking bids due December 29th at noon. Plans may be obtained from Room 117. Deposit, $5.00.

Supplies, Board of Education, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, William Dick, secretary. Playground supplies, lumber, shade, cloth material. Owners taking bids due January 4th at noon.

Hospital (alts. and add. to property), 1810-12 Spring Garden street, Philadelphia. Architect selected, Amos W. Barnes, 22 South Seventeenth street. General alterations and additions. Preliminary plans in progress.

Warehouse, Germantown avenue and Roy street, Germantown, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owners, North Philadelphia Supply Co., care of architect. Brick, slow burning construction, 3 stories, 30x90 feet, slag roof, pine floors, cement work, electric light, rolled steel sash. Preliminary plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Printing Establishment, Thirty-fourth and Market streets, Philadelphia, $500,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Stephen Greene & Co., Sixteenth and Arch streets, Philadelphia. Reinforced concrete and brick, 3 stories, 175x200 feet, slag roof, wood block and concrete floors, waterproofing, dampproofing, iron work, fire doors, rolled steel skylights, tile and marble work (heating, electric work, plumbing, sprinklers and power plant reserved). Contract awarded to Hughes-Foulkrod Co., Commonwealth Building, Philadelphia.

Factory Building, Southwest Corner Water and Mifflin streets, $200,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Schlorer Delicatessen Co., 1909 South Front street, Philadelphia. Brick, granite, steel and concrete, 4 stories and basement, 60x88 feet, slag roof, asphalt and cement floors, hollow tile, metal lath, metal ceilings, dampproofing, terra cotta, iron work, floor hardener, bond, fire and kalamein doors, hollow metal skylights, rolled steel sash, demolition, tile work (heating, electric work, plumbing and elevators reserved), cork insu-

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lation. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Mill Building, Clearfield and A streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Harry C. Aberle & Co., on premises. Reinforced concrete and brick, 1 story add., 195x89 feet, slag roof, cement floors, iron work, demolition, rolled steel doors, hollow metal sash and skylights (heating, plumbing, electric work and elevators reserved). Contract awarded to Nelson Pedley Const. Co., Inc., 1615 Spruce street, Philadelphia.

Building (alts.), 23-25-27-29 South Nineteenth street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets. Brick work, cement work, plastering, demolition, hot water heating, electric lighting, roof repairs, sheet metal work, mill work, painting, glazing, hardware, iron work. Contract awarded to B. Bornstein, 1318 Wingohocking street.

Parochial School, Sixty-eighth and Lansdowne avenue, Philadelphia, $150,000. Architect, Paul A. Monaghan, 1218 Chestnut street, Philadelphia. Owners, St. Callista's Roman Catholic Church, care of Rev. Daniel S. Coonihan, on premises. Reinforced concrete, brick and steel, 3 stories, 142x62 feet, slag roof, maple floors, metal lath, metal window guards, iron work, bond, electric lighting. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Fire Stations (2), Nos. 6 and 21, 826 Newmarket street and 1118 East Montgomery avenue, Philadelphia. Owners, Bureau of City Property, Department of Public Works, 216 City Hall, Philadelphia. Reinforced concrete and brick work, mill work, hardware, steel work, bond. Contracts awarded: No. 6, E. C. Durell, 1713 North Twenty-fourth street, Philadelphia, $1,876; No. 21, E. C. Durell, 1713 North Twenty-fourth street, Philadelphia, $2,124.

Warehouse, Thirty-first and Master streets, Philadelphia. Architect, private plans. Owners, American Stores Co., Nable and York streets, Philadelphia. Reinforced concrete and brick, 6 stories, 400x100 feet. Contract for shell of building awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Kintergarden Building, Coulter street, Germantown, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Germantown Friends' School, on premises. Brick, hollow tile, stucco and cut stone, 1 story, 30x73 feet, slate roof, oak and cement floors, metal lath, iron work, hot water heating, electric lighting, tile work. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Residence, Cresheim road, Chestnut Hill, Philadelphia. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, Harold Nason, 1714 Chestnut street, Philadelphia. Stone and stucco, 2½ stories, 52x50 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to Ralph C. Borthwick, 8018 Germantown avenue.

Residence and Store (alts. and add.), Northwest Corner Broad and Jackson streets, Philadelphia, $8,000. Owner, William H. Hascher, 3300 Kensington avenue, Philadelphia. Brick, 1 story, 17½x7 feet, slag roof, hardwood and pine floors, electric lighting, tile work. Contract awarded to H. Slavitt, 5136 Haverford avenue, Philadelphia.

Residence and Garage, Fanshawe street, West of Oakley street, $6,000. Architect, private plans. Owner, William Bell, 3413 Ella street, Philadelphia. Brick, 2 stories, 22x30 feet, 12x12 feet, garage, 1 story, shingle roof, electric lighting, oak and pine floors. Contract awarded to Walter C. Johnson, 4601 Ella street.

Residences and Garages (26), Sixty-fifth and Paschall avenue, $128,000. Architect, private plans. Owner, Annie Lein, 2118 South Sixty-fifth street, Philadelphia. Brick, 2 stories, 15x30 feet, 12x10 feet and 16x45 feet, slag roof, electric lighting. Contract awarded to Levin Brothers, 1311 Commonwealth Building.

Stable (alts. and add.), 660-62 North Forty-first street, Philadelphia, $2,600. Architect, private plans. Owner, John L. Hermann, 4136 Lancaster avenue, Philadelphia. Brick, 1 story, 30x42 feet, slag roof, pine floors, electric work. Contract awarded to Leonard Will, 651 North Frazier street, Philadelphia.

Store (add.), Southwest Corner Fifth and Vine streets, Philadelphia, $2,500. Architect, private plans. Owner, Alex. Edelman, 1025 Girard avenue, Philadelphia. Brick, 1 story, 16x25 feet, slag roof, pine floors. Contract awarded to Belinsky Brothers, 2637 South Ninth street.

Residence and Store (add.), 3958 Market street, Philadelphia, $2,400. Architect, private plans. Owner, Charles Essig, 3927 Ludlow street, Philadelphia. Brick, 1 story, 13x26 feet, slag roof, pine floors. Contract awarded to W. L. Barton, 2108 Sedgley avenue, Philadelphia.

Garage, 445 Fairmount avenue, Philadelphia, $6,000. Architect, private plans. Owner, Henry R. Abrams, 1500 North Seventh street, Philadelphia. Brick, 2 stories, 17x73 feet, slag roof, steam heat, cement floors. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

Building (alts.), South side Fitzwater street, West of Sixteenth street, $3,000. Architect, private plans. Owners, Murphy Brothers, Southwest Corner Sixteenth and Fitzwater streets. General alterations. Contract award-

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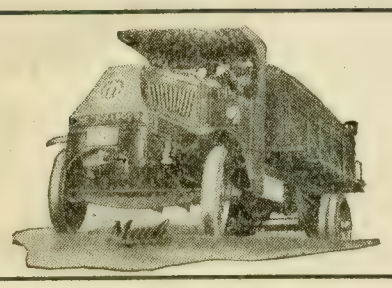
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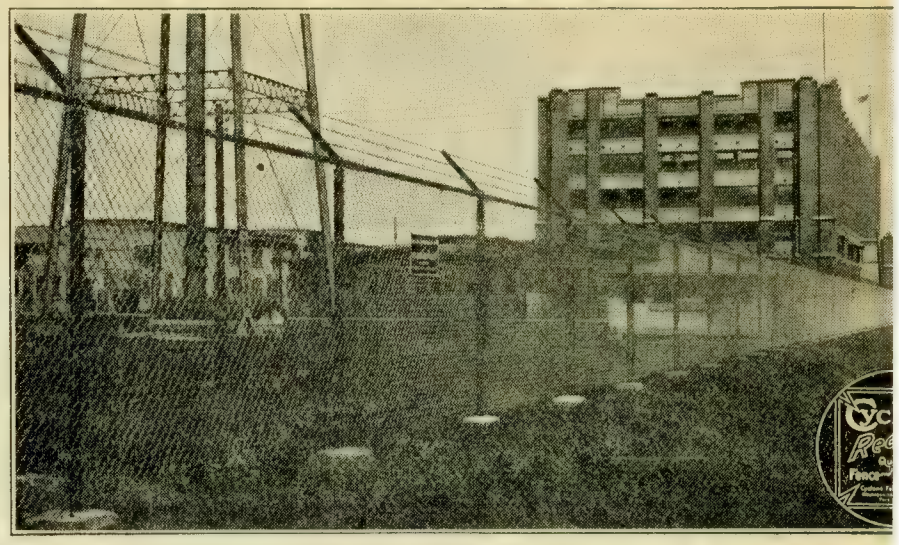
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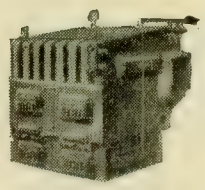
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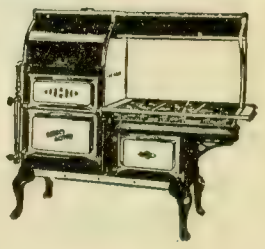
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Store and Residence (alts.), 2015 Columbia avenue, $3,000. Architect, private plans. Owner, J. Oshcopsky, on premises. General alterations. Contract awarded to L. Eisenberg, 932 North Seventh street, Philadelphia.

Warehouse (alts.), 42 North Fifth street, Philadelphia, $25,000. Architect, private plans. Owners, J. H. Jolley & Co., on premises. General alterations, new front, brick and cut stone, mill work, plumbing, glazing, painting, plastering, rolled steel sash, new stairs. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Residence, Northeast Corner Oakley and Kerper streets, Philadelphia, $5,000. Architect, private plans. Owner, Alex. Gibson, 804 Hellerman street, Philadelphia. Frame, 2 stories, 24x32 feet, shingle roof, electric lighting. Contract awarded to Frank B. Naylor, Clementon, N. J.

Residence and Store (alts.), Southeast Corner York road and Green Lane. Owner, Mary C. Lawlow, Oak Lane and Twelfth street, Philadelphia. General alterations. Contract awarded to Burton C. Simon, Twentieth and Passyunk avenue.

Workshop, South side Margaretta street, East of Tackawanna street. Architect, private plans. Owner, Robert Johnston, 2135 North Park avenue, Philadelphia. Brick, 1 story, 84x91 feet, slag roof, steam heat, electric work, steel sash, cement floors. Contract awarded to A. W. Carney, 5746 Frankford avenue, Philadelphia.

Residence and Store (add. and alts.), 227 South Forty-fifth street, $7,500. Architect, private plans. Owners, Maris Tailoring Co., Forty-fifth and Locust streets, Philadelphia. Brick, 2 stories, 16x15 feet, slag roof, oak and pine floors. Contract awarded to S. A. Kevorkian, 60 North Sixtieth street, Philadelphia.

Garage, Southeast Corner Fifty-second and Pentridge streets, Philadelphia, $5,000. Architect, private plans. Owner, William Heim, on premises. Brick, 1 story, 18x72 feet, slag roof, cement floors, electric work. Contract awarded to O. G. Marston, 2511 South Sixty-eighth street, Philadelphia.

Garage (add.), 6155 North Woodstock street, Philadelphia, $5,000. Architect, private plans. Owner, Leonard Di Prementer, on premises. Stone, 1 story, 41x66 feet, cement floors, electric light. Contract awarded to Alex. A. Lauro, 5941 North Marvine street.

Building (repairs), Southeast Corner Twenty-seventh and Dauphin streets, $3,500. Architect, private plans. Owner, Nathan Golder, 1723 North Forty-second street, Philadelphia. General fire repairs. Contract awarded to M. Cotler, 1220 North Forty-second street, Philadelphia.

Residence (alts. and add.), 3621 North Seventeenth street, $2,000. Architect, private plans. Owner, P. Shurn, on premises. Brick, 1 story, 9x12 feet, slag roof, pine floors. Contract awarded to C. A. Gandiosi, 6337 Vine street, Philadelphia.

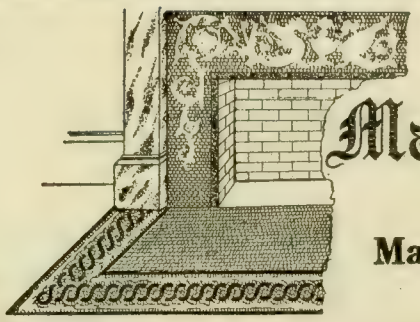
Building (alts.), 30 South Twenty-first street, Philadelphia. Architect, private plans. Owner, W. M. Crowe, 5309 Gainor road, Philadelphia. Plastering, painting, glazing, carpentry, mill work, brick work, electric work. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street.

Residence (alts.), 2005 North Sixteenth street, Philadelphia, $3,000. Owner, Morris Weiss, on premises. Plastering, brick and stone work, cement, carpentry, mill work, slag roof, painting, glazing, tile work, electric and iron work. Contract awarded to A. Nardi & Son, 761 South Thirteenth street, Philadelphia.

Exchange (alts.), Broad and Rockland streets, Philadelphia, $15,000. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. General alterations. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Residence, South side Herschell road, West of Southampton road. Architect, private plans. Owner, Charles P. Tower, 2342 West Tioga street, Philadelphia. Frame, 2 and 1 stories, 28x49 feet and 20x6 feet, hot water heat, electric light, oak and pine floors, tile work. Contract awarded to Jacob Hansen, Afton street and Verie road.

Stores (2), 933-35 Poplar street, Philadelphia, $2,250 each. Architect, private plans. Owner, M. Feinstein, Tenth and Poplar streets, Philadelphia. Brick, 2 stories, 15x18 feet, slag roof, pine floors, electric light. Con-



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tract awarded to M. Rosenbeck, 909 Parrish street, Philadelphia.

Garage, West side Towanda street, North of Chestnut avenue, $4,000. Architect, private plans. Owner, Mrs. T. H. Dixon, on premises. General fire repairs, slag roof, cement floor, electric work. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

Building (fire repairs), 1218 South Fourth street, $2,000. Architect, private plans. Owner, Sarah Hosek, on premises. Carpentry, mill work, painting, glazing, plastering. Contract awarded to M. Kravitz, 863 North Marshall street.

Garage, 1936 Roberts avenue, Philadelphia, $2,000. Architect, private plans. Owner, J. Hiddemer, 1936 Roberts avenue, Philadelphia. Brick, 1 story, 31x17 feet, 16x17 feet, slag roof, cement floors. Contract awarded to M. Yoccota, 1943 Cayuga street, Philadelphia.

Bank Building, Fourth and Market streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Mutual Trust Co., Bourse Building, Philadelphia. Brick, granite, concrete, cut stone and steel, 3 stories, 99x35 feet, slag roof, concrete floors, metal lath, hollow tile, iron work, demolition (heating, electric lighting, plumbing, tile, marble and terrazzo, finished floors, reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street.

PENNSYLVANIA Construction News

Home, Middletown, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Pennsylvania State Home, I. O. O. F., care of architect. Brick, limestone, reinforced concrete, structural steel, 3 stories, 295x15 feet, built-up roof, composition floors, dampproofing and waterproofing, terra cotta, iron work, floor hardener, bond, fire doors, hollow metal skylights, tile and marble work, steam heating, electric lighting, kitchen equipment, refrigeration. Plans in progress. Architect will take bids in one month.

Y. M. C. A. Building, Norristown, Pa., $350,000. Architects, Thomas, Martin & Kirkpatrick, Otis Building, and Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owners, Y. M. C. A., H. C. Gresh, chairman Building Committee, Norristown, Pa. Brick, steel and concrete, 4 stories. Plans about completed. Architects will be ready for bids in one month.

School, Willistown Township, Delaware County, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Board of Education, Malvern, Pa. Brick, steel and concrete, 2 stories and basement. Preliminary plans in progress.

Residence, Brookline, Pa. Architect, A. E. Taylor, 3 North Nineteenth street, Philadelphia. Owner, D. A. Uhl, Jr., care of architect. Hollow tile and stucco, 2 stories, 55x37 feet, Spanish tile roof, pine floors, hot water heating, electric lighting, tile work. Plans in progress.

Warehouse, 93 East Northampton street, Wilkes-Barre, Pa. Architects, Bosworth & Knapp, Wilkes-Barre, Pa. Owners, Wholesale Grocery Co., Wilkes-Barre, Pa. Brick, concrete, fireproof, 5 stories, 35x100 feet, slag roof, wood and concrete floors, electric light, steel sash, fire doors. Plans in progress.

Convent, Susquehanna, Pa., $50,000. Architect, J. A. Barrett, 130 Washington street, Scranton, Pa. Owners, St. John's Roman Catholic Church, Rev. D. J. Bustin, Susquehanna, Pa. Brick, 2½ stories, 38x78 feet, slate roof, hardwood floors, hot air heat, electric light. Plans in progress.

Apartment, Scranton, Pa. Architect, V. Russoniello, Scranton Life Building, Scranton, Pa. Owner, Frank Carlucci, 601 Madison avenue, Scranton, Pa. Stucco, 2½ stories, 76x41 feet, slag roof, hardwood floors, tile work, electric light. Sketches in progress.

Store Front (alts.), Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owners, Jurkowitz Brothers, 226 Penn avenue, Scranton, Pa. Brick, plate glass, copper work, hardwood floors, tile and marble work. Plans in progress.

Store House and Machine Shop, Juniata, Pa. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, concrete and steel, 1 story. Plans in progress.

Residence, Bellevue Park, Harrisburg, Pa. Architects, Kast & Kelker, Commonwealth Building, Harrisburg, Pa. Owner, F. M. Gilbert, Paxtang, Harrisburg, Pa. Stone, 2 stories, 30x50 feet, tile roof, hardwood floors, electric light, tile work. Plans in progress.

Dormitory Building, Quincy, Pa. Architects, Kast & Kelker, Commonwealth Building, Harrisburg, Pa. Owners, Quincy United Brethren Orphans' Home, Quincy, Pa. Brick, 2 stories, 40x45 feet. Plans in progress.

Residence and Garage, Drexel Hill, Pa. Architect, Joseph F. Bradley, 1121 Fillmore street, Philadelphia. Owner, A. Berman, 5928 Walnut street, Philadelphia. Stone, 3 stories, 65x46 feet, slate roof, hardwood floors, metal lath, cement work, steam heating, electric lighting, tile and marble work. Plans in progress. Architect and owner will be ready for sub-bids in about three weeks.

School, Pittston, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre. Owners, Pittston School Board, J. Callahan, secretary, Pittston. Brick, 2 stories and basement, 10 rooms. Too early for details.

School, Pittston, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Pittston School Board, J. Callahan, secretary, Pittston. Brick, 2 stories and basement, 6 rooms. Too early for details.

Bank, Warrior Run, Pa. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, People's Bank of Warrior River, W. J. Richards, Warrior Run, Pa. Brick, 1 story. Preliminary plans in progress.

Factory, Seventh street, near Hamilton street, Allentown, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Max Rosenberg, 449 North Second street, Allentown, Pa. Brick, 3 stories, 60x200 feet, slag roof, pine floors. Preliminary plans in progress. Too early for details.

Store and Residence, Steel City, near Bethlehem, Pa. Architect, C. E. Spangenburg, 504 Broadway, Bethlehem, Pa. Owner, Corina Fortuna, Steel City, Pa. Brick, 1 story and basement, 35x60 feet, pine floors, hot air heat, electric light. Plans in progress.

School, Pringle, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, School Board of Pringle, T. M. Gaugh, Pringle, Pa. Frame, 2 stories, 70x100 feet, slag roof, pine floors, electric light, roof ventilators. Plans in progress.

Garage, Kingston, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Davis Brothers, on premises. Steel, concrete, 2 stories, 60x100 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Plans in progress.

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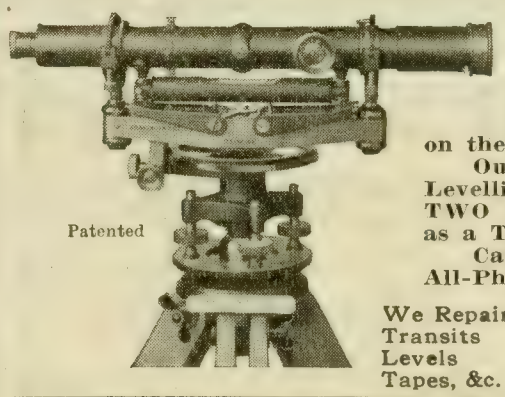
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Office (alts.), Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Wilkes-Barre Evening News, Wilkes-Barre, Pa. Plaster, plate glass, copper work, tile and marble work, metal lath, skylights. Plans in progress.

Stores and Apartments (3), Haverford avenue, Narberth, Pa. Architect, private plans. Owner, George R. Markle, Narberth, Pa. Brick, 2 stories, slag roof, pine floors, hot water heat, electric lighting, metal bulks, plate glass. Owner will build.

Store Front, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, J. J. Becker Co., 32 West Market street, Wilkes-Barre. Plate glass, marble floors, electric light, tile and marble work, plaster. Plans in progress.

Fire Engine House, Plymouth, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Borough of Plymouth, care of County Commissioner, Plymouth. Frame or brick, 2 stories, 30x70 feet, slag roof, concrete and maple floors, electric light (heating reserved), tile work, steel work. Plans in progress.

Residence and Garage, Kingston, Pa. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, Thomas Hart, Miners' Bank Building, Wilkes-Barre, Pa. Frame and stucco, 2½ stories, slate roof, hardwood floors, tile work, electric light. Preliminary plans in progress.

Residence and Garage, Kingston, Pa. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, name withheld. Hollow tile and stucco, 2 stories, 35x50 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Preliminary plans in progress.

Tuberculosis Hospital, Luzerne County, Pa. Architects, associate, E. H. Poggi, Donald F. Innes and Charles L. Levy, 176 South Main street, Wilkes-Barre, Pa. Owners, Luzerne County County Commissioners, Court House, Wilkes-Barre, Pa. Fireproof construction, size not decided. Plans in progress. Will take bids January 1st.

Store and Apartment, Miners Mills, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, P. J. Boylan, Miners Mills, Pa. Frame, 2 stories, 22x54 feet, hardwood and pine floors, steam heat, electric light. Plans in progress. Architect will take bids next week.

Central Heating Plant, Abington, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners, Abington Memorial Hospital, Abington, Pa. Brick, cut stone, steel and reinforced concrete, 2 stories, 60x30 feet, slag roof, cement floors, terrazzo work, rolled steel sash, kalamein doors, bond, floor hardener, ornamental iron work, dampproofing, terra cotta. Architects taking bids due December 27th.

Residence (alts.), North Wales, Pa. Architect, Harry Gordon McMurtire, 1012 Walnut street, Philadelphia. Owner, A. W. Lukens, North Wales, Pa. General interior alterations and repairs. Architect taking bids due December 23rd.

Vocational School, Mill City, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owners, Mill City School Board, care of A. H. Stack, secretary, Mill City. Frame, 2 stories, 86x70 feet, shingle roof, pine floors, steam heat, electric light, roof ventilators. Owners taking bids due December 22nd.

Apartment House, Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Thomas Protherae, 838 Monroe street, Scranton, Pa. Frame and stucco, 3 stories, 32x67 feet, asphalt shingle roof, hardwood floors, steam heat, electric light. Architect and owner taking bids due December 22nd.

Residence (alts. and add.), 50 North Broad street, Bethlehem. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, E. H. Gallagher, West Broad street, Bethlehem, Pa. Frame, 2 stories, 12x15 feet, slate roof, pine floors, hot water heat, electric light, general alterations. Owner taking bids.

Cottage, Harvey's Lake, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Max Karnofsky, 68 South Washington street, Wilkes-Barre, Pa. Frame, 2 stories, 30x30 feet, shingle roof, hardwood floors, electric light. Architect taking bids due as soon as possible.

Cow Stable, Dallas, Pa. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, W. F. Newberry, care of architect. Hollow tile and stucco, 2 stories, 30x70 feet, asbestos shingle roof, concrete floors, electric light, floor hardener. Architect will take bids January 1st, due January 15th.

Road Work, Pennsylvania. Owners, State Highway Department, Capitol Building, Harrisburg. Owners taking bids due December 27th at 10 A. M. at State Capitol.

Beaver County, R-243, Industry and Borough Townships, 17,197 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, $4,000.

Beaver County, R-243, Industry Township, 21,986 feet. Same construction as above. Certified check, $4,000.

Mercer County, R-82, Greenville Borough, Hempfield and Sugar Grove Townships, 13,704 feet. Same construction as above. Certified check, $3,500.

Mercer County, A-2255, Hempfield Township, 5,700 feet. One course reinfarced concrete. Certified check, $1,500.

D. W. Jeffries School, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Lowest bids submitted by Chester Const. & Cont. Co., Chester, Pa., $113,812; Barnes & McLaughlin Co., 17 South Seventeenth street, Philadelphia. $120,880.

Industrial School, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Lowest bidders: Victor Gondos, Franklin Trust Building, Philadelphia, $90,330; Chester Const. & Cont. Co., Chester, Pa., $95,484.

Junior High School, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Lowest bidders: Chester Const. & Cont. Co., Chester, Pa., $77,407; Barnes & McLaughlin Co., 17 South Seventeenth street, Philadelphia, $78,890.

Clayton School, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Lowest bidders: Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia, $22,820; George E. Gross, 1613 Chestnut street, Philadelphia, $23,147.

Pennsylvania Contracts Awarded

Bottling Plant and Garage, Shawmont, Pa. Architects, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Keewis Realty Co., New York City. Brick, slow burning, 2 stories, 85x35 feet, composition roof, and brick and steel, 1 story, 28x70 feet, slag roof, cement and plank floors, vapor heating, electric lighting. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street.

Stores and Garage, Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owners, Charles Ball and N. B. Cohen, 506 Lackawanna avenue, Scranton. Cut stone, brick, steel, reinforced concrete, 1 story, 100x48 feet, slag roof, cement and yellow pine floors, hollow tile, metal lath, tile work, rolled steel sash, hollow metal doors, metal ceilings, waterproofing, ornamental iron work (plumbing, heating and electric work reserved). Contract awarded to Mann & Behike, 931 Madison street, Scranton.

Store, Washington street, Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owners, New Wall Paper Co., 116 North Washington street, Scranton. Steel, brick, fireproof, 4 stories, 80x158 feet, slag roof, hardwood floors, hollow tile, metal lath, electric work, tile and marble work, copper front, roof ventilators, rolled steel skylights, bond, floor hardener, iron stairs, ornamental iron work, terra cotta. Contract awarded to General Fireproofing Co., Scranton, Pa.

Public School (alts. and add.), Clifton Heights, Pa. Architects, Folsom & Stanton, 10 South Eighteenth Street, Philadelphia. Owners, Board of Education, Clifton Heights, Pa. Excavation, stone work, brick and concrete work, sheet metal work, carpentry, mill work, plastering, painting, glazing, hardware, iron work. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street, Phila-

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delphia. Electric, J. McGurney, Clifton Heights, Pa. Plumbing, United Heating & Plumbing Co., 236 North Twelfth street, Philadelphia.

Garage, Berwyn, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Suburban Ice Co., Berwyn, Pa. Brick, steel and concrete, 2 stories, 60x110 feet, asphalt slate shingle roof, cement floors, fireproof partitions, plate glass, hollow metal doors, hollow metal sash, steam heating, electric lighting. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

Residences (4), County Line, East of Cricket street, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick, stone and stucco, 2 stories, 42x48 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

Residences (4), Ardmore, Pa. Architect, private plans. Owner, Dr. Charles W. Barber, Ardmore, Pa. Brick, stone and stucco, 2 stories, 42x48 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

Residence (alts.), 123 Coulter avenue, Ardmore, Pa. Architect, Charles Clemens, 922 Atwood road, Philadelphia. Owner, Agustus Wright, on premises. Plastering, plumbing, heating, electric work, slag roof, hardwood floors. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

Residence, Bethayres, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, Herbert Johnson, care of architect. Hollow tile and stucco, irregular, 2½ stories, tin roof, hardwood floors, hot air heating, electric lighting, tile work. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Store and Apartment, South Main street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, B. F. Ginley & Sons, 254 South Main street, Wilkes-Barre, Pa. Brick, 2 stories, 40x150 feet, built-up roof, hardwood floors. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre.

Residence, Iona avenue, Narberth, Pa. Architect, private plans. Owner, A. W. Brockmeyer, Narberth, Pa. Stone, hollow tile and stucco, 2½ stories, 19x37 feet, shingle roof, pine floors, hot water heat, electric light. Contract awarded to George R. Markle, Narberth, Pa.

Apartment (alts. and add.), Madison street, Scranton, Pa. Architect, V. Russoniello, Scranton Life Building, Scranton, Pa. Owner, Frank Carlucci, 601 Madison avenue, Scranton, Pa. Stucco, 3 stories, 51x57 feet, pine floors, general alterations. Contract awarded to Mackle Const. Co., 1024 Clay street, Scranton, Pa.

Store (alts. and add.), Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owner, name withheld. Terra cotta front, 4 stories, 40x160 feet, slag roof, hardwood floors, electric light, copper work, steel work. Contract awarded to Hower & Stender, 1001 Madison avenue, Scranton.

Joseph Smedley School, Chester, Pa. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Lowest bidders: Chester Const. & Cont. Co., Chester, Pa., $267,484; John R. Wiggins Const. Co., Eighteenth and Cherry streets, Philadelphia. $24,711.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

New Jersey Construction News

High School, Millville, N. J., $300,000. Architects, Guilbert & Betelle, 546 Broad street, Newark, N. J. Owners, School Board of Millville, Mark S. Branin, president, Millville, N. J. Brick, 2 stories. Preliminary plans in progress.

Residence, Palmyra, N. J. Architect, Benjamin R. Stevens, Jr., 1737 Filbert street, Philadelphia. Owner, Clarence T. Yerkes, Palmyra, N. J. Frame and stucco, 2½ stories, 36x27 feet, shingle roof, hardwood and pine floors, vapor heating, electric lighting, tile work. Plans completed. Architect will be ready for bids in a few days.

Apartment, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, H. Fagan, 107 Albin Place, Atlantic City, N. J. Brick, 3 stories, 32x120 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Sketches in progress.

Club House, Margate Point, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, name withheld. Fireproof, 100x70 feet. Sketches in progress.

Office Building, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, A. Freeman, 1516 Atlantic Avenue, Atlantic City. Brick, timber, 5 stories, 40x140 feet, slag roof, pine floors, steam heat, electric light, tile and marble work, elevators. Preliminary plans in progress.

Cottage, Ventnor, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, F. E. Wagner, Atlantic avenue, Ventnor, N. J. Frame, 2 stories, 23x45 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Store and Apartment, Boardwalk, Ocean City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, Mr. Smith, care of architect. Sketches in progress.

Sunday School, Haddon Heights, N. J. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, First Presbyterian Church, Haddon Heights, N. J. Stone and frame, 2 stories, 60x75 feet, shingle roof, steam heating, electric lighting. Preliminary plans in progress.

Theatre (alts.), Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Grand Theatre, Walter Reade, Savoy Theatre, 112 West Thirty-fourth street, New York. Wood and tile floors, tile and marble work, interior decorations, kalamein doors, plumbing, ornamental plaster. Plans in progress.

Dairy, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owners, Castania Dairy, 234 North Broad street, Trenton, N. J. Steel, fireproof, 3 stories, 80x80 feet, concrete and slag roof, concrete floors, freight elevators, electric light, roof ventilators, rolled steel sash and skylights, fire doors, floor hardeners. Architect taking sub-bids.

Stores and Apartments, Pacific avenue, Wildwood, N. J., $40,000. Architect, Mark B. Reeves, Trust Building, Wildwood, N. J. Owner, Louis Sagel, Wildwood, N. J. Brick, 2 stories, 50x100 feet, slag roof, wood floors, hot water heat, electric light, roof ventilators, metal ceilings, metal bulks. Architect will build.

Ice and Cold Storage Building, Ottens Harbor, Wildwood, N. J., $25,000. Architect, Mark B. Reeves, Trust Building, Wildwood, N. J. Owners, O. H. Ice & Coal Storage Co., Wildwood, N. J. Concrete and steel sash, 1 story, 80x120 feet, slag roof, concrete floors, electric light, waterproofing, floor hardener. Architect will build.

Junior High School, Park Boulevard and Euclid street, Camden, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Board of Education, City of Camden, N. J. Reinforced concrete, brick and steel, 3 stories ,282x149 feet, tile and slag roof, cement and duraflex floors, hollow tile, metal lath, safety treads, roof ventilators, metal ceilings, terra cotta, iron work, precast stone, rolled steel skylights, tile and marble work. Owners taking bids due December 26th at 2 P. M. at City Hall.

Y. W. C. A. Building, Stevens street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson Ave., Camden, N. J. Owners, Y. W. C. A., care of Mrs. Develin, Merchantville, N. J. Brick and steel, 4 stories and basement, 69x143 feet, slag roof, concrete floors, metal lath, safety treads, roof ventilators, waterproofing and dampproofing, iron work, iron stairs, rolled steel sash, vapor heating, electric lighting, tile and marble work. Architects taking bids due December 28th.

Factory, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Trenton Potteries, North Clinton and Ott streets, Trenton. Steel, brick, 4 stories, 115x72 feet, slag roof, pine floors, electric lighting (heating reserved), freight

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elevators, fire doors, rolled steel sash. Architect taking bids due December 22nd.

Residence and Store (alts.), Atlantic avenue, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, S. Cantor, 1115 Atlantic avenue, Atlantic City, N. J. Brick, interior alterations and additions, pine floors, electric light, copper work, plate glass. Architect taking bids due December 22nd.

Apartment, Store and Lodge, Pacific avenue, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owners, Plumbers' and Steamfitters' Association, care of architect. Brick, terra cotta, 3 stories, 40x125 feet, slag roof, hardwood floors, metal lath, electric light (heating and plumbing reserved), tile work, rolled steel sash, roof ventilators, fire doors, waterproofing and dampproofing, ornamental iron work. Architect taking bids due December 23rd.

Service Station, Absecon Boulevard, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owners, Service Station Co., Boston and Atlantic avenues, Atlantic City. Hollow tile, stucco, 1 story, irregular size, slag roof, concrete floors, hollow tile, electric work. Owner will take sub-bids.

Apartment (alts. and add.), New York avenue, near Beach, Atlantic City. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, Julius Biron, 2324 Atlantic avenue, Atlantic City, N. J. Brick, tile, 2 story add., 24x50 feet, slag roof, pine floors, electric light. Owner taking bids due as soon as possible.

School, Bordentown, N. J. Architects, Fowler & Seaman, Trenton, N. J. Owners, Bordentown School Board, Edward Bechtel, secretary, Bordentown, N. J. Brick, cut stone and steel, 2 stories and basement, 128x110 feet, slag roof, oak and pine floors, hollow tile, safety treads, roof ventilators, waterproofing, terra cotta, iron work, rolled steel sash, tile work (heating, electric work and plumbing reserved). Lowest bidders: Barnes & McLaughlin Co., 17 South Seventeenth street, Philadelphia, $110,440; F. H. Morris & Co., Trenton, N. J., $111,607. Electric, Tab Electric Co., 447 South Broad street, Trenton, N. J., $2,737.90. Plumbing, George A. App & Co., Bordentown, N. J., $11,309.69. Heating and ventilating, Trenton Plumbing & Heating Co, 366 South Broad street, Trenton, N. J., $15,848.

Kiln Shed, Lalar street, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Equitable Plant, Trenton Potteries Co., Lalor and Hancock streets, Trenton, N. J. Brick, 1 story, 150x44 feet, slag roof, concrete floors, electric light, metal lath, rolled steel sash, fire doors. Lowest bidders: Burton & Burton, American Mechanics' Bank Building, Trenton, N. J.

School (add.), Winslow Junction, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, H. Angelow, secretary, Blue Anchor, N. J. Frame, 1 story, 39x26 feet, shingle roof, hardwood floors, tile work, electric lighting, skylights. Owners will readvertise for bids.

New Jersey Contracts Awarded

Hotel, Ocean City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Ocean Front Hotel Corporation, Eleventh and Boardwalk, Ocean City. Limestone, granite, brick, cut stone, reinforced concrete and steel, 8 stories, 175x140 feet, and 2 stories, 160x100 feet, tile and slag roof, concrete and oak floors, hollow tile, metal lath, waterproofing, terra cotta, iron work, bond, hollow metal doors, tile, marble and terrazzo work (heating, electric work, plumbing, foundations and elevators reserved). Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

Warehouse, States street and Pennsylvania Railroad, Camden, N. J. Architect, private plans. Owner, Eugene E. Nice, 272 South Second street, Philadelphia. Brick and steel, 1 story, 51x31 feet, slag roof, cement floors, rolled steel sash. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia, who are taking sub-bids due as soon as possible.

Residence, Beechwood avenue, Trenton, N. J. Architect, private plans. Note Correction. Owner, Miss Gertrude Woolsey, 46 Montgomery avenue, Trenton. Frame, 1½ stories, 32x33 feet, shingle roof, hardwood floors, hot air heating, electric lighting. Contract awarded to O. F. Johnes, P. O. Box 463, Trenton, N. J.

Cottage, Ventnor, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, H. Moore, 5403 Ventnor avenue, Ventnor, N. J. Frame, 2 stories, 26x39 feet, slate roof, pine floors, hot water heat, electric light, tile work. Contract awarded to J. V. Mathis & Son, Guarantee Trust Building, Atlantic City, N. J.

School, Blue Anchor, N. J., $23,346. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, H. Angelow, secretary. Blue Anchor, N. J. Brick, 1 story, 51x82 feet, asphalt shingle roof, hardwood floors, electric lighting, skylights, cast stone, waterproofing and dampproofing. Contract awarded to George W. Shaner, Palmyra, N. J.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 14, 1922. Sealed Proposals will be opened in this office at 3 P. M., January 4, 1923, for the installation complete of one full magnet control electric freight elevator, for the U. S. Post Office, etc., Richmond, Va. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 13, 1922. Sealed Proposals will be opened in this office at 3 P. M., January 5, 1923, for interior painting, finishing, etc., of buildings and structures, as listed, for the United States Veterans' Hospital, at Perryville, Md. Specifications may be obtained at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 808)

cipient start in these parts usually results in complete destruction of the interior of the house and all its contents—and too often takes human lives. More than 23,000 persons lose their lives by fire every year in America.

The home builder thoughtful enough to take the first step toward safety by building solid brick exterior walls should know how he may protect the most vulnerable spots inside his home by the use of metal lath.

Once the flames eat through the interior plaster on ordinary bases, wood partitions become flues for the flames. With metal lath as a plaster base, the fire is stopped and cannot get between the two surfaces of the walls or partitions. A wood-bearing partition especially needs good protection, for its failure means the collaspe of the floors above.

The Face Brick Association also say in their manual:

Having built a face brick house for your client, as the most substantial and attractive construction to be had, protected on the outside with a roof of permanent material and on the inside with fire-resistive material at the weakest points, you have given him the best value for his money, in a structure at once beautiful, enduring, economical and safe against fire.

It is thus recognized that interior construction must be given more attention before ordinary construction can be considered fire-safe. This idea is reinforced by the statistics recently developed by the National Lumber Manufacturers Association in which they analyze the number of fires occurring during the year 1920 in the eighty-three (83) largest cities in the United States. They found that only 1.1 per cent. of all fires extended to the adjoining buildings; that only one-fifth of 1 per cent. extended beyond the adjoining buildings, and that 98.7 per cent of all fires were confined to the building or place of origin. Furthermore, the loss by communicated fires was but 7 per cent. of the total loss.

I do not believe in one of their principal conclusions, however, that because there were more fires in brick and stone buildings than there were in frame buildings in proportion to the number of fires in each, that such information is good evidence to conclude that if people live in masonry houses they are more careless than if they live in frame houses. However, if such a conclusion is true, then the reinforced stucco frame house would be the ideal house, for the occupants would take the greatest precautions for fire safety, and the exterior would provide all the resistance to external exposure that unprotected windows in any type of wall will develop.

We cannot count upon a chain for any greater strength than its weakest link, and we cannot count upon a building wall of any material to prevent fires passing through unprotected windows. However, going back to the actual figures, we find that only 1.1 per cent. of the fires are communicated to the adjoining buildings anyway, and we had much better concern ourselves with fire protection to prevent the 98.9 per cent. of the fire hazard

than concentrate attention upon the communicating fires.

I have always contended that if fire resistance is essential for exterior walls, we should not camouflage the issue and pierce those walls with unprotected openings. If the danger is not great enough to warrant protected openings, it is not great enough to warrant restricting the choice of the prospective builder by law to a masonry wall on the basis of fire protection. If masonry can be proved to be more economical than reinforced stucco in the long run, or more attractive, as it is to many people, it should be chosen on that basis, and as a matter of fact, is chosen on that basis in most cases. However, if the owners wish is for reinforced stucco on frame, he should not be deterred by Ordinances. Officials know that stucco on metal lath has withstood the requirements of the one-hour test, you can feel perfectly safe in permitting this construction for residential occupancy in any location where unprotected windows are permitted. It is customary, however, to restrict the use of such buildings to a space outside the fire limits, and this is not entirely justified.

However, this question of exterior walls is one of small importance when compared to the question of interior fire protection, but I merely wish to register that a frame structure can be made fire-safe from exterior fire exposure by the employment of Portland cement stucco reinforced by metal lath on wood studs.

The interior of all buildings is the prime consideration and the one which is most sadly neglected. When 98.9 per cent. of all the fires are confined within the building in which they originate, is it not well for us to give more consideration to interiors than to exteriors, and more consideration to interiors than has been given in the past?

The burning up of thousands of buildings every year is an unnecessary discredit to the economy and efficiency of lumber. One of their most ardent advocates, *The American Lumberman*, has endorsed and encouraged co-operation between the lumber industry and the metal lath industry in the use of metal lath in particular points in frame and stucco houses to make them more fire resistive, and the National Lumber Manufacturers Association has jointly sponsored the tests at the Underwriters' Laboratories which have proven so successful.

It is well recognized by building officials, fire marshals and others, and confirmed by the statistics on fires that they originate in certain specific locations, over the furnaces, in closets, around flues, etc., etc. It is also recognized that if fires do start, their existence is more dangerous if they involve a staircase, the bearing partitions or the inhabited floors, than if they merely involved non-bearing partitions, attic floors or other unimportant parts.

While no one wishes to make a compromise with safety, yet it is far better to go one step in advance than it is to refuse utterly to move forward. It would be ideal, and it some day may come to pass that all buildings will be required to be entirely of incombustible material, and lumber used only for temporary uses such as packing cases, or artistic uses such as furniture and trim. But that is a long way in the distance and people who are clamoring for this ideal realize that they are playing a long and tedious game. They are making progress, however, and every step is an advance, because here and there is someone who does wish complete fire protection.

While lumber is still an economical material, is it not better to utilize it properly than to place it under the discredit that it is now receiving? Some day all houses will be required to have all lumber adequately protected, but this step is also in the distant future. Let us then look to what is practical, inexpensive, in tune with the times, and possible of early accomplishment. Metal lath can be used in the vulnerable parts of a house at a cost of about 2 per cent.—less than the interest charge for four months' occupancy.

As previously stated, metal lath has been considered as a superior material, but how much in advance of other plaster and lathing combinations has never been known. The Associated Metal Lath Manufacturers, therefore, initiated tests at the Underwriters' Laboratories several years ago, intending to develop information as to the resistance of their material with different combinations of plaster and under different conditions of exposure. The war stopped rapid progress of this, but prior to the war, a test had been made on exterior stucco placed directly on the studs, without sheating, and back-plastered.

A preliminary report from the Underwriters' Laboratories on back-plastered metal lath and stucco construction with Portland cement indicates that:

"This finish can be expected to furnish a substantial barrier to the passage of flame into the hollow spaces back of it for about one hour when exposed to fire of the degree of severity to which stucco buildings are likely to be subjected under average exterior fire exposures.

"This finish can be expected to provide sufficient heat insulation to prevent the ignition of the wooden supports to which it is attached for about one hour when exposed to fire of the degree of severity to which stucco finished buildings are likely to be subjected under average exterior fire exposures."

In our opinion, there is not much difference between the fire resistive value of the back-plastered type of construction and the more common sheathed construction. There is a thicker coat of stucco on the back-plastered type, but the sheating interposed between the stucco and the bearing studs compensates, in a measure, for the thinner stucco on the sheathed construction. Inasmuch as the windows in either case are by far the weakest link—the slight difference, if any, between these two constructions is not an essential feature.

Informal tests have been made on common lath and Portland cement stucco and this combination loses its fire resistance in a very short time and the wood is in full flame in 10 to 20 minutes because of the communication of the heat through the thin coat of stucco to any one of the laths which can then communicate the fire on the interior hollow space very rapidly.—*Architect and Engineer.*

BEAUTIFYING OUR BACK STREETS

Back of the big drab building of the Board of Public Education, at Nineteenth and Ludlow Streets, Philadelphia, is a little group of houses that has already given a novel and picturesque turn to real estate development in the central residential district, and shown how to prevent valuable property from deteriorating into slums.

This is "Lantern Lane," as quaintly charming a community as is to be found in all Philadelphia, and located in a street where less than a year ago Negroes of the poorer class huddled in squalor and congestion.

Uber Street was its old name, an 18-foot wide thoroughfare running 105 feet from Ludlow to Ranstead Street, just west of Nineteenth. On either side were eight two-story brick houses. The tiny back yards were half filled by outhouses. There was no sewer, no plumbing, no lighting. Just a dirty, unsanitary, unsightly spot in the heart of a great city.

Then one day a man with imagination passed this alley—for it was scarcely more than that—and wondered why such a place should exist at the back doors of the big properties on Chestnut Street. As he stood contemplating the rookeries he had an idea, and from present indications this idea will result in the transformation of many a Philadelphia back street into a residential garden spot.

The man was David Coons. Not an architect, not a builder, not a real estate operator, but a manufacturer of women's underwear at Tenth and Market Streets. A man of vision, he first visualized Uber Street as transformed into an artists' colony, but later realized that it was not only artists who wanted artistic homes.

As Uber Street was one of the few

streets that had never been dedicated to the city, it was possible to secure title to the street together with the entire group of houses. Eighty-seven Negroes who had occupied the sixteen houses moved to other quarters, and after they had taken all their belongings, over fifty wagonloads of rubbish were removed from the houses, chiefly from the cellars.

Only walls and floor joists were left standing for rebuilding, which was begun last spring, and in a few months a miracle was achieved. A neatly dressed, gray-haired colored man walking out Ludlow Street the other day, stood agape in front of Lantern Lane.

"Land's sake!" he exclaimed. "De las' time I passed by here I wouldn't have lived in dat street myself, and look at it now!"

Look at it, Philadelphians, and see what can be made of the ugly spots of your city.

Here are sixteen charming little houses in the Spanish style, of white and buff stucco with colored tile inserts. Eight houses on either side of a garden walk that is flanked with tiny lawns and decorative shrubs and evergreens. At the back of the walk is a high gate, with a trellis above it. The entrance is also through a gate, with lanterns on its posts, and at every door of every house—even the back doors—are lanterns. At night the lanterns of Lantern Lane give the cheeriest touch imaginable to this little colony.

Small ornamental iron balconies and hand rails and bright brass and copper trimmings add to the attractiveness of the fronts. And finally, doors and shutters are painted in bright red, yellow blue and green! The effect is not garish, but delightful.

When you enter one of these houses you step into a combination living and dining room, with a kitchenette in the rear. On the second floor are two bedrooms with a bath between. The cemented cellar can be used for storage purposes or as a den or other room. A service court in the rear affords light, air and cheerfulness.

Heat and hot water are supplied from a central plant, and there is a janitor and maid on the premises. It is really a form of apartments, with each tenant having a home of two floors and basement.

So much for the aesthetic side of the undertaking. Lantern Lane stands as a shining example of what can be done to beautify our dirty little back streets. But, many people will ask, does it pay in dollars and cents, as well as in healthfulness and civic pride?

It does pay, and the best evidence that it does is the various other operations now under way to accomplish somewhat similar results.

When Mr. Coons bought Uber Street, lock, stock and barrel, the houses rented for $12 a month. The houses in Lantern Lane rent for $100, $110, and $120 a month, and practically all were taken some time before the operation was completed.

Now that the practicality and profitableness of developments of this nature have been proved, it is plain to be seen that Lantern Lane is to be the forerunner of a whole series of such operations.

Mr. Coons himself is already planning another one on a much more elaborate scale and in a much more exclusive locality. This project is the building, in a large area south of Walnut and east of Twenty-second, of an "English Village," with rows of gabled houses of the type usually found in the suburbs, facing on a central driveway bordered by grass and evergreens.

It is the reclaiming of the back streets, however, that holds the greatest interest and the greatest possibilities. The construction of artistic homes where unsightly rattletraps have stood. The installation of sanitary conditions in localities which have been breeding spots for disease. The increased valuation of property and the elimination of an objectionable feature particularly flagrant in this city—the abutting of ill-kept and often unclean rows of small houses on the most desirable central residenes.

A splendid example of this sort of improvement is the work now going on in Panama Street for Senator Pepper. Panama Street is between Spruce and Pine and the block between Nineteenth and Twentieth Streets has long been occupied by Negroes.

Both sides of Panama Street are being remodeled into attractive homes. In many cases two single houses are being converted into one double house, as is going on in other parts of the city.

In a number of the smaller streets contiguous to the better residential district, improvements of this nature are being made by private owners. The most popular method is to take two small single houses, each with a 16-foot frontage, and convert them into a double house with a 32-foot front. Because of the low ceilings, these houses are much easier to heat than the old-fashioned high-ceilinged homes and they furnish more cosily.

On the southwest corner of Sansom and Van Pelt Streets, a group of ugly little old brick houses is being converted into picturesque Spanish type of homes of stucco, with iron balconies and colored tile ornamentation. These houses are known as "Sansom Gardens."

The "Garden City" idea is not merely applicable to a city's suburbs—but the foregoing shows it can likewise contribute to municipal progress in the heart of a great city.—*The Corn Exchange.*

WHAT HAPPENS TO STANDARDS

We find reports which indicate that a few in the brick industry prefer to make brick in sizes that are larger than the standard, but this is not the thing that usually happens to standards, nor is it as objectionable as things which more commonly happen.

The more common trouble in connection with standards is the disposition to slight them either in the matter of size or quality and thus bring ill repute upon the whole industry. We have a graphic illustration of this in the lumber industry where at one time the standard thickness for dressed inch boards was put at seven-eighths. Members of the trade kept slighting this, partly by design and partly by dressing stock before it was thoroughly dry so it afterwards shrunk to less than standard thickness. This continues until eventually there was a revising of the standards and thirteen-sixteenths was adopted. Today there is an aggravating disposition to make boards dressed to three-fourths and this is causing some agitation in the lumber trade because it means another lowering of the standard.

In the clayworking industry we have had some examples of slighting the weight and quality of the standards set up in hollow building tile, which has caused trouble and must be corrected or it will bring the whole industry into disrepute.

In the matter of brick it is the same thing. We will eventually have to guard against making stock smaller than the standards set up. The few who make oversize are not harming the industry like those who may claim to be making standard and get the habit of slighting it until others follow suit and we have in the brick industry a repetition of what has happened in lumber.

Let us make the standards in brick and hollow building tile have a real meaning by faithfully following them both in the matter of sizes and other requirements in the standard specification.—*The Clay Worker.*

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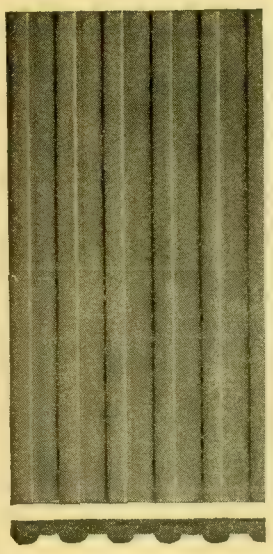
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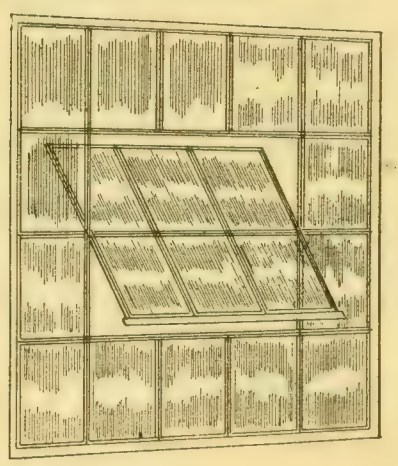
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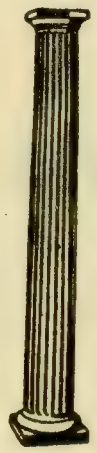
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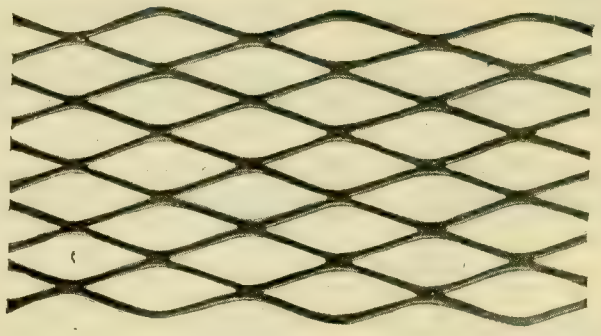


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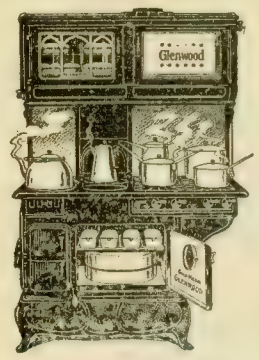
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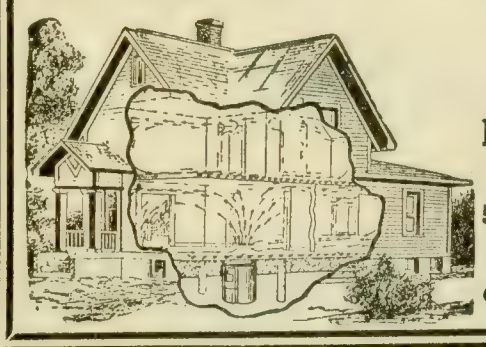
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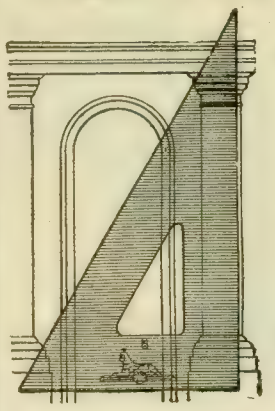
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VOLUME XXXVII
Number 52

PHILADELPHIA
December 27, 1922

BUILDERS' GUIDE

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As The Editor Sees It

CHRISTMAS, 1921, was merry because of the great volume of building work at that time in preparation for 1922. If our readers will remember we spoke of a delightful surprise awaiting us Christmas morning when we awoke to find our stocking filled with many and various kinds of plans for prospective work. Practically all the buildings looked forward to at that time have been started, and who will deny that 1922 has brought forth the greatest building boom this country has ever experienced. We can be merry again this Christmas as there is a large volume of work in sight for 1923—the war memorial building for the city to cost a few million; the twenty-four story office building to be erected at the southeast corner of 15th and Chestnut Streets for the Chestnut Street Realty Co.; the million dollar Jeanes hospital for the northeastern part of Philadelphia; the sixteen story office building for the Insurance Company of North America to be built at 16th and Arch Streets; the City Hall annex to be built at Broad and Race Streets; the fifteen story office sales building for the Cunningham Piano Co., to be built at 1312-14 Chestnut Street; the St. Joseph College Buildings on the city line; the group of buildings for Episcopal Divinity School in West Philadelphia; the enormous school programme for the City and many parochial schools; the College of Pharmacy to be built in West Philadelphia; large office building on northwest corner of 16th and Parkway; theatre and office building at northwest corner of Broad and Locust Streets for the Stanley Company; a large sales and service building to be built at 31st and Market streets; many new Churches and a volume of residential work.

The revival in all lines of business and the better feeling existing between employers and employees certainly presents sufficient reason to be merry. Labor has had a busy year and if the worker will keep on the job and not make demands for increases in wages that cause the building public to rebel at high prices, everything will move along smoothly for another year. The greatest cause of happiness is unselfishness, and if the other fellow's views are given consideration, and the golden rule observed more generally by the building fraternity at large, then the merry Christmas spirit will continue throughout the new year and the result will be not only a happy but prosperous 1923. The *Building Age* in commenting on the close of a prosperous year in the building trades in 1922 says:

This month brings the year 1922 to a close and everyone in the building industry has reason to be thankful that they have had such a prosperous year.

More building has been accomplished than in any other previous year of the history of the United States, and it is with great satisfaction that builders can survey the work that they have done as they realize that this work has been something that will add to the permanent wealth of the country and the happiness of quite a large number of families.

The man that owns his own home is a better citizen all around than one that simply rents a few rooms and it is by builders preaching this gospel of owning your own home that has made many to want and strive to build a home of their own.

There is certainly satisfaction in doing a good piece of work where it benefits yourself, your customer and your country.

The Lumber Trade Journal in discussing the round-up of the passing year and the prospects of 1923 says:

At this, the time of year for casting up the annual accounts, it is of value and interest to sum up the total of current comment as an augury for 1923. Apparently, it has been a twelve-month's era of admitted benefits in the whole, with lively expectations and actual promises of more to come. The prosperity experienced has not been the greatest ever, but in the main neither has it been confined to any one part of the lumber business or to one or a few kinds of lumber, but pretty generally distributed over all the list so that there appears no pressing need to specify kinds or otherwise particularize but to make it a lump-sum definition and inclusive.

DRAWING MATERIALS

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Neither has the demand apparently been confined to any special part of the country but pretty generally as well as generously distributed over all, which is the wholesomest sort of an indication. But a large part, perhaps the major part, has been individual building of the home sort or small business character; no large industrial as a rule. This also should be matter for encouragement. With business going at such a pace by hopping along on the one foot of individual building, as one commentator has picturesquely put it, the future, early after the first of 1923, may well be imagined when we get going once more on all four good legs, like a work-horse, and with feet planted firmly on the ground in view of accrued benefits and the prospects of others to follow. The psychology of it, in short, is right now all to the good. The general state of mind, in other words, bad or good, respectively, hinders or helps. Anyway, it is a pointer. Hence the annual round up.

If you will discount by as much as 50 per cent. the ambitious building programs you hear tell about in almost any city of the land, either large or small, and in response to insistent needs and demands, you will still have a realizing sense of something in store that is quite worth while. It means good lumber business, apparently not only for the coming year, but for several years to come.

AS the demand for schools is increasing everywhere and the volume of school building grows larger almost daily, greater attention should be given to design and construction of schools. Nothing is dearer to the hearts of man than children, nothing more important to the building up of citizenship than proper care and training of children. What then could be more worthy of thorough consideration and more vital to the country than sound, sanctuary and safe schools. "Make the school house safe" in "Safeguarding America against fire" is most praiseworthy and quite timely. This valuable paper continues:

It is high time that American business men gave some consideration to the subject of fire-safety in the schools which their children attend, since the record proves conclusively that conditions are decidedly dangerous.

Perhaps it is not realized that more than one-fifth of the population of the United States—that vital portion which represents the nation's future hope—is spending several hours a day, for approximately 200 days each year, in school houses which, in literally thousands of cases, present fire hazards that would not be tolerated for a moment in a progressive business establishment. There is nothing in this of rhetorical extravagance; it is regrettable and sober truth—the more regrettable because the situation has been pointed out so often and yet is allowed to continue. The Committee on Safety to Life, of the National Fire Protection Association, has declared that fully 90% of all school buildings are veritable fire traps; and the Association is in the habit of delivering only carefully weighed opinions.

Five school buildings a day, on the average, are attacked by fire; that, at least, was the showing during the five-year period of 1916-1920. Within those sixty months a total of 9,187 claims for loss or damage to school property was recorded by the Actuarial Bureau of The National Board of Fire Underwriters. These claims represented a combined property loss of $26,302,479. Furthermore, one independent authority has noted that during the months of November and December, 1921, and January, 1922, there were thirty-one fires in which a school-building was completely destroyed. Scores, of course, during this time, were more or less severely damaged, so that there is no indication of a let-up in the school burning rate.

Statistics covering the annual loss of life in school fires are not available, but it is known that in the aggregate the number of fatalities is large. Unfortunately, it is only after a particularly staggering holocaust, such as occurred at Collinwood, Ohio, a few years ago, that nation-wide attention is focused upon the school fire hazard; and local attention, in all too many cases, is paid to the subject of safeguarding school property only when an outbreak serves to uncover some error of construction or administration more than usually flagrant—particularly when the error results in loss of life.

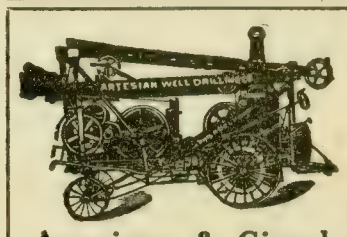
As a matter of fact, in the face of this appalling average of five school fires a day, one factor, and only one, has kept the number of fatalities at all within bounds. That factor is the admirable practice of holding school fire drills. Thousands of children, from one end of the country to the other, owe their lives to this training in orderly escape. Frequent fire drills, it goes without saying, should be made compulsory in schools. No longer ago than October 31, last, 1,250 pupils and 46 teachers in the New Utrecht High School, Brooklyn, N. Y., marched to safety as a result of previous practice, when fire, starting in the attic, made evacuation necessary. Scarcely a day passes that the school fire drill does not demonstrate its value over and over again.

Yet, at their best, fire drills must be considered simply as supplementary measures. They are not a cure, but an evasion; they do not remove the unhealthy

(Continued on page 833)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Sales and Service Building, Fifteenth and Passyunk avenue, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, C. K. Johnson, care of architect. Brick, steel and cut stone, 2 stories, irregular size. Architects taking revised bids due January 8th.

Garages (2) (alts.), 1510-12 Stiles street, Philadelphia, $4,000. Architect, private plans. Owner, R. H. George, 2313 Walnut street, Philadelphia. Cement work, plastering, painting, glazing. Owner will build.

Residence, North side Frye street, East of Ridge avenue, $3,000. Architect, private plans. Owner, Horace Caldwell, East Shawmont avenue below Ridge. Frame, 2 storiees, 25x33½ feet, shingle roof, oak and pine floors. Owner will build.

Residence and Store (alts.), 3335 Kensington avenue, $2,800. Architect, private plans. Owner, S. Rosenberg, 2719 Frankford avenue, Philadelphia. General alterations. Contract awarded to H. Hofmeister, 2247 North Fifth street, Philadelphia.

Building (alts.), 1204 Fitzwater street, Philadelphia, $2,500. Architect, private plans. Owner, Mr. Canuso, 837 South Twelfth street, Philadelphia. Brick, 2 stories, 31x9 feet, slag roof, pine floors. Contract awarded to Dominick Iero, 519 Christian street.

Residences (57), Forty-eighth and Aspen streets, Philadelphia. Architect, private plans. Owner, E. L. Seeds, 1101 Divinity Place, Philadelphia. Brick, 2 stories, 18x44 feet, slag and tin roof, hardwood floors, hot water heating, electric lighting, artificial tile work. Owner is ready for sub-bids.

Store and Dwelling and Residences (20), Windsor street, East of Fifty-fifth street, Philadelphia. Architect, William B. Lowenthtal, 1208 Chestnut street, Philadelphia. Owners, Simpson & Somers, 1719 Christian street, Philadelphia. Brick, 2 stories, 17x44 feet, (23) 15½x44 feet, 18x40 feet, and (20) 17½x33 feet, respectively, slag and tin roof, hot water heating, electric lighting, tile work, iron work, cement work, plate glass, metal bulks, garages in basements. Owners will be ready for sub-bids in one week.

Store (alts.), 6019 Market street, Philadelphia. Architect, Joseph P. Bradley, 1121 Fillmore street, Philadelphia. Owner, A. Berman, on premises. Brick and terra cotta front, 2 stories, 16x30 feet, electric work, tile work, iron work, cement work, mill work, painting, glazing. Owner is ready for sub-bids.

Residence, West Phil-Ellena street, near Green street, $25,000. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owner, W. S. Weyl, 46 North Sixth street, Philadelphia. Stone, 2½ stories, slate roof, electric lighting, hardwood floors, tile work. Plans in progress. Architects will be ready for bids in two weeks.

Store and Apartments (alts. and add.), Southwest Corner Thirty-fourth and Berks streets. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x61 feet, general alterations and addition. Plans in progress.

Factory Building, Thirteenth and Wood streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick and steel, 2 stories and basement, 58x72 feet, slag roof, cement and pine floors. Plans in progress.

Stores and Apartments (3) and Residences (30), Seventh and Rockland streets, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, I. Feinstone, 252 West Roosevelt Boulevard, Philadelphia. Brick, 2 stories, (1) 19x75 feet, (2) 16x54 feet, (25) 15x42 feet, and (5) 16x54 feet, slag and tile roof, hardwood floors, metal ceilings, plate glass, metal bulks, tile and marble work, hot water heating, electric lighting. Plans nearly completed. Owner will be ready for sub-bids in one week.

Store and Residence (2), Oak Lane, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Stone, hollow tile and stucco, 2½ stories, 18x66 feet, hot water heating, electric lighting, hardwood floors. Plans in progress.

Store (alts. and add.), 902 Chestnut street, Philadelphia, $35,000. Architect, E. A. Stopper, Fuller Building, Philadelphia. Owners, Yawman & Erbe, 1013 Chestnut street, Philadelphia. General alterations and additions. Preliminary plans in progress. Too early for details.

Hospital Building (alts.), Frankford avenue and Palmer street, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Mary's Hospital, on premises. General interior alterations and repairs. Plans in progress. Architect will be ready for bids in a few weeks.

Residences (36), Fifty-fourth and Lebanon streets, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, Kenin & Shapiro, 5850 Market street, Philadelphia. Brick, 2 stories, 16x56 feet, slate, slag and tile roof, hardwood floors, hot water heating, electric lighting, tile work, garages in basements. Owners are ready for sub-bids.

Apartment House, Sixty-third street, near Lancaster avenue, Overbrook, Philadelphia. Architects, associate, William A. Young, 320 South Iseminger street, and Robert C. Winter, 11 South Sixteenth street, Philadelphia. Owner, Jacob Bobb, 6250 Ludlow street, Philadelphia. Brick, stone, steel, concrete and terra cotta, 3 stories, 150x150 feet, tile roof, hardwood floors, gypsum block partitions, elevators, iron and steel work, fire doors, tile floors, vapor heating, electric lighting. Architects will take sub-bids in two weeks.

Stores and Apartments (6), C and Tioga streets, Philadelphia. Architect, H. H. Kline, Bulletin Building, Philadelphia. Owner, Michael Cylinder, 5734 Chestnut street, Philadelphia. Brick, 2 stories, 16x59 feet, slag roof, pine floors, metal ceilings, plate glass, electrtic lighting, tile work. Owner is ready for sub-bids.

Residences (14), Seventy-first avenue and Broad street, Oak Lane, Philadelphia. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, Benjamin Zorochoff, 3047 Weikel street, Philadelphia. Brick, 2 stories, 19x57 feet, slag roof, hardwood floors, cement work, hot water heating, electric lighting, garages in basements. Owner is ready for sub-bids.

Residences (2) (twin), Edmun and Friendship streets, Tacony, Philadelphia. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, Raphael Gattis, 713 East Edmun street, Tacony, Philadelphia. Stone, 2½ storiese, 36x61 feet, tin roof, pine floors, hardwood floors, electric lighting. Owner is ready for sub-bids.

Office Building, Northwest Corner Ninth and Pine streets, Philadelphia. Architect,



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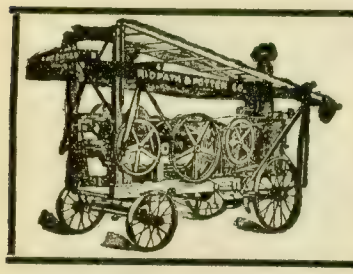
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Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Federation of Jewish Charities, 1512 Walnut street, Philadelphia. Reinforced concrete, brick, cut stone and artificial cut stone, 4 stories, 128x45 feet, asphalt and tile roof, concrete floors, metal lath, safety treads, waterproofing and dampproofing, iron work, iron stairs, bond, kalamein doors, hollow metal sash and skylights, tile and marble work, cold water painting (heating, electric work, plumbing and elevators reserved). Architect taking bids due January 3rd.

Sales and Service Building (Ford), Fifteenth and Passyunk avenue, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, C. K. Johnson, care of architect. Brick, steel and cut stone, 2 stories, irregular, 40x76x68x96 feet. Architect taking revised bids due December 28th at noon.

Fire Houses (2), No. 18, 1920 Callowhill street, and No. 30, 3546 Germantown avenue, Philadelphia. Architect, private plans. Owners, Department of Public Safety, Bureau of City Property, F. H. Caven, Director, 216 City Hall, Philadelphia. General alterations. Owners taking bids due December 29th at noon.

Building (alts.), 2047 Chestnut street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Harry Sharp, care of David Phillips, Lincoln Building. General alterations, slag roof, hardwood and maple floors, plastering, plumbing, heating, electric work, flush bulks. Owner is taking new bids.

Apartment House (alts. and add.), 1402 Spruce street, Philadelphia. Architect, Gabriel B. Roth, 1619 Chestnut street, Philadelphia. Owner, name withheld. Architect taking bids.

Sunday School (alts. and add.), Southeast Corner Chelten avenue and Limekiln Pike, Philadelphia. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Covenant Presbyterian Church, on premises. Brick, cut stone (alternate for castone), 2 stories, 26x69 feet, slate roof, composition, cement and pine floors, waterproofing, iron work, bond (heating, lighting and leaded glass reserved). Architect taking bids due December 29th.

Residence (alts.) and Library Addition, Forty-third and Locust streets. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, Dr. C. Lincoln Furbush, on premises. Brick and cut stone, 2 stories, 23x30 feet, slate roof, oak floors, bond, iron work (heating, electric work, plumbing and tile work reserved). Architect taking bids due December 28th.

Stores (2), Northwest Corner Seventh and Green streets, Philadelphia. Architect, private plans. Owner, N. Taplinger, 901 Commonwealth Building, Philadelphia. Brick, 1 story, slag roof, cement work, electric lighting, tile work, sheet metal work, plate glass, mill work, iron work, painting, glazing. Owner taking bids due as soon as possible.

Kitchen Wing, House of Correction, Holmesburg, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Corrections, City Hall, Philadelphia. Brick, concrete and steel, 1 story, 75x115 feet, Barret roof, concrete and pine floors, metal lath, roof ventilators, iron work, floor hardener, rolled steel skylights, demolition. Lowest bidders: F. A. Havens Co., 845 North Nineteenth street, Philadelphia, $28,500; Holmesburg Const. Co., Holmesburg, Philadelphia, $31,300. Electric, Baird Osterhout Co., 2109 Walnut street, $1,440. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, $12,436.

Residences and Garages (43), Pratt, Saul and Oakland streets, $172,000. Architect, private plans. Owner, George Edel, Hillcrest and Stenton avenues, Philadelphia. Brick, 2 stories, 18x30 feet, slag roof, pine floors, electric lighting. Owner will build.

Residences (3), 2200-02-04 Erie avenue; (2) 2200 and 2200½ Hunting Park avenue, Philadelphia, $34,500. Owner, M. J. Reiser, 251 South Felton street, Philadelphia. Brick, 3 stories, 20x44 feet, 2 stories, 16x42 feet, 16x30 feet and 42x35 feet, 32x15 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

Residences (6), South side Midvale avenue, West of Thirty-second street, $49,000. Architect, private plans. Owners, Johnson & Talley, Room 11, Post Office Building, Germantown, Philadelphia. Brick, 3 stories, 17x50 feet and 16x50 feet, slag roof, oak and pine floors, hot water heating, electric lighting, tile work. Owners will build.

Residences (10), Torresdale avenue, North of St. Vincent street, $38,200. Architect, private plans. Owners, Curtis Brothers, State road and Unruh street, Philadelphia. Brick, 2 stories, 16x42 feet and 16x32 feet, 13x10 feet, slag roof, electric lighting. Owner will build.

Store and Office (add. and alts.), 11 South Mole street, $6,200. Architect, private plans. Owner, Harry T. Saunders, 36 South Eighteenth street, Philadelphia. Brick, 1 story add., 8x8 feet, slag roof, electric lighting. Owner will build.

Residences and Garages (21), West side Sixty-sixth street, North of Paschall avenue, $4,400 each. Architect, private plans. Owner, A. Singer, 37 South Fifty-ninth street, Philadelphia. Brick, 2 stories, 16x40 feet and 15x30 feet, 12x16 feet, slag roof, hot wa-

ter heat, electric lighting. Owner will build.

Residence and Store (add. and alts.), Northwest Corner Forty-first and Walnut streets, Philadelphia, $2,200. Architect, private plans. Owner, Samuel Rosen, on premises. Brick, 2 stories, 20x14 feet, slag roof, general alterations. Owner will build.

Garage, Northwest Corner Gross and Summer streets, Philadelphia, $2,000. Architect, private plans. Owner, D. D. Porter, on premises. Hollow tile and stucco, 22x37 feet, cement floors, electric lighting. Owner will build.

Residences and Garages (63), $4,400 each, and **Residences and Stores (4)**, $5,000 each, Aspen street and Olive street, Forty-eighth to Forty-ninth, Philadelphia. Architect, private plans. Owner, E. L. Seeds, 1101 South Divinity street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, electric lighting. Owner will build.

Miscellaneous Work, Philadelphia. Owners, City of Philadelphia, Bureau of Water, 792 City Hall. Contract 624, furnishing and installing sand filtering machines. Contract 625, furnishing and installing Turbo Centrifugal Boiler Feed Pump. Contract 626, installing coal storage equipment, grading and filling construction of tracks, building of shelter house, furnishing of tractor and steel cars, and furnishing one locomotive crane. Contract 327, furnishing 300 single nozzle fire hydrants. Contract 628, furnishing 150 6-inch stop valves, 100 8-inch stop valves, 50 12-inch stop valves. Contract 629, furnishing 400 tons 6-8 16-in. cast iron pipe, 40 tons 6-8 16-in. specials.

Supplies, Philadelphia. Owners, Department of Public Works, 317 City Hall, Philadelphia. Owners taking bids due December 28th at noon. 14,400 cubic yards asphalt sand, 20,000 tons binder stone, ¾-inch; 2,700 tons asphalt cement, 1,500 tons limestone dust, 80,000 gallons 19 @ 23 degree fuel oil, 225,000 gallons 30 @ 36 degree fuel oil.

Grading and Paving, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, 216 City Hall. Owners taking bids due December 29th at noon. Grading—Blakemore street, Phil-Ellena to Sprague street, and five other streets; Bingham street, Devereaux street to Robbins streets; Champlost avenue, Nineteenth street to Ogonz avenue, and fourteen other streets; Carpenter street, south foowalk, Germantown avenue to Mower street; Edgemore road, Lebanon avenue to Malvern avenue; Georges lane, Columbia avenue to Montgomery avenue; Louisest street, Middleton street to Walnut lane; Fifty-sixth street, Summer street to Vogdes street; Sixty-fifth avenue, Fifth street to Sixth street; Sixty-sixth street, Haverford avenue to Lansdowne avenue. Asphalt Paving—Cornwall street, Emerald street to Jasper street.

Grading and Improving, the Bensalem Branch of the Roosevelt Boulevard, from Welsh road to Grant avenue. Furnishing steel plate girder bridge complete. Laying vitrified pipe conduit on Haines street, from Crittenden street to Wister street. Furnishing three steel percolating tanks, size 8 feet 7½ inches, ouside diameter, by 18 feet long, 9/16-inch thick. To be furnished and placed.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Benjamin Franklin Hotel, Ninth and Chestnut streets, $5,000,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Benjamin Franklin Hotel Co., care of A. H. Mershon, Land Title Building. Granite, cut stone, limestone, reinforced concrete and steel, 16 stories, loft, basement and sub-basement, 194x230 feet, slag and tile roof, asphalt, mastic, cement and oak floors, hollow tile, metal lath, safety treads, waterproofing, terra cotta, iron work, cork insulation, vault doors, bond, kalamein and hollow metal doors, hollow metal sash, tile and marble work, electric light, steam heating. Contract awarded to F. W. Mark Cont. Co., Commercial Trust Building, Philadelphia.

Dairy Building (add.), 212 Lombard street, Philadelphia. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets. Brick, concrete and steel, 3 stories and mezzanine, 46x20 feet, slag roof, cement floors, terra cotta, iron work, bond, rolled steel skylights, tile and terrazzo work. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Residence and Store (alts.), Sixth, Catherine streets and Passyunk avenue. Architect, Michael Capobianca, 778 South Seventh street, Philadelphia. Owner, Annible Vernacchio, Seventh and Pemberton streets, Philadelphia. General alterations, mill work, composition and pine floors, painting, glazing, stucco, plumbing, mill work, electric work,

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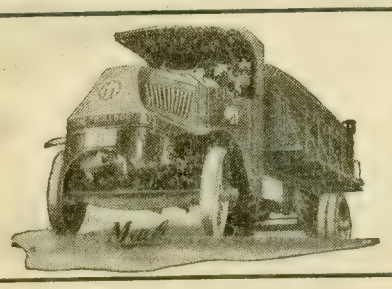
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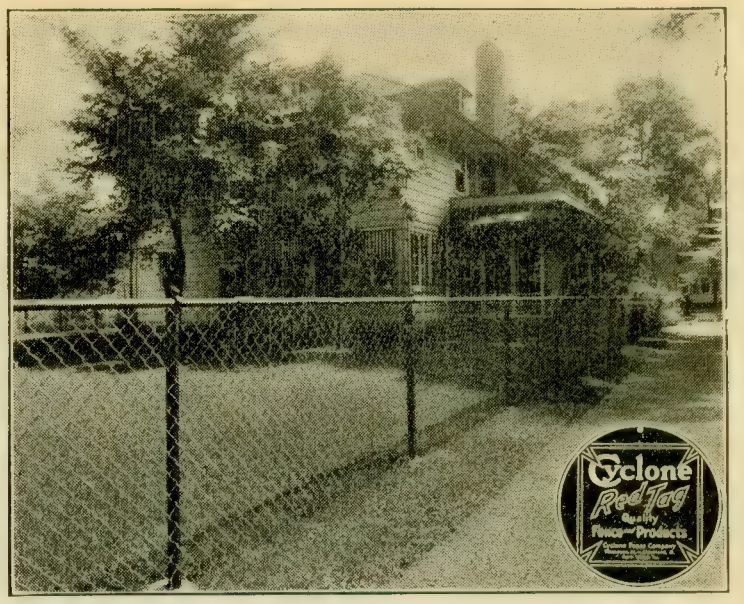
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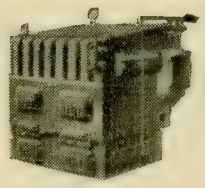
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flush bulks. Contract awarded to Michael Demosi, 1000 Oregon street, Philadelphia.

Apartment and Store (alts. and add.), Northwest Corner Thirty-second and Baring streets, $5,000. Architect, private plans. Owner, M. Silverman, 1517 North Twelfth street, Philadelphia. Carpentry, mill work, painting, glazing, hardware, plastering, tile work, electric lighting. Contract awarded to N. Epstein, 2221 North Front street, Philadelphia.

Sales and Service Building, Sixty-fifth avenue and York road, Philadelphia. Architect, Charles W. Gilmore, 10 South Eighteenth street, Philadelphia. Owners, Margerum Motor Co., care of architect. Brick, reinforced concrete, steel and granite, 1 story and basement, 147x73 feet, slag roof, concrete and maple floors, terra cotta, bond, kalamein doors, copper skylights, rolled steel sash, terrazzo and marble work, steam heating, electric lighting. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Church and Sunday School, Lombard and Van Pelt streets, $81,000. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owners, Central Baptist Church, on premises. Brick, stone, cut stone and steel, 1 story and basement, 96x64 feet, slag roof, reinforced concrete and maple floors, metal lath, dampproofing, bond, tile work, steam heating el,ectric lighting, demolition. Contract awarded to Fred H. Keiser & Co., 128 East Fourth street, Pottstown, Pa.

Apartments (6), Stores (2) and Garage (alts. and add.), Thirty-second and Baring street, Philadelphia, $8,200. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, P. Silverman, 1517 North Twelfth street, Philadelphia. Brick and stone, 3 stories, 17x24 feet and 19x24 feet, painting, mineral stucco, plumbing, heating, plastering, cement work, electric lighting, metal ceilings, iron work, hollow metal skylights, demolition, pine and concrete floors, slag and tin roofs. Contract awarded to Nathan Epstein, 2221 North Franklin street.

Oregon Central Office Building (alts.), 1705-07-09 South Broad street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick work, cement work, painting, glazing, carpentry, granite work, slag roof, metal lath, plastering, tile and marble work. Contract awarded to John N. Gill Const. Co., Otis Building.

Loft Building, 235-37 North Twelfth street, Philadelphia, $40,000. Architect, J. Ethan Fildstein, Otis Building, Philadelphia. Owner, Dr. Henry W. Lobb, 1209 Race street, Philadelphia. Brick and steel, 2 stories, 20x97 feet, slag roof, pine floors, plate glass, metal bulks, hot water heating, electric lighting. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

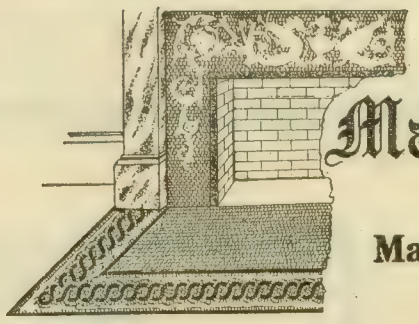
Residence and Garage, Forty-seventh and Pine streets, Philadelphia, $24,000. Architect, J. L. Connaroe, 225 South Sydenham street, Philadelphia. Owner, Dr. J. B. Guthrie, on premises. Brick and steel, 2½ stories, 57x33 feet, slate roof, composition, pine and oak floors, metal lath, sheet rock, hot water heating, electric lighting, tile work. Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Residence and Garage, Oak road, Queen Lane Manor, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Henry Goldthorp, 338 Seymour street, Philadelphia. Stone, 3 stories, 42x28 feet, wing 14x16 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile and marble work, cement work. Contract awarded to Rush Brothers, 1016 Harrison street, Philadelphia.

Stores (5) (alts. and add.), Southeast Corner Sixtieth and Thompson streets. Architect, private plans. Owners, Michael and John Croce, on premises. Brick, 1 story, 30x23 feet, and 2 stories, slag roof, pine floors, hot water heating, electric lighting, tile work, flush bulks. Contract awarded to A. Nardi & Son, 761 South Thirteenth street, Philadelphia.

Residence (alts.), 4629 Leiper street, Philadelphia, $3,000. Architect, private plans. Owner, Winfield Scott, 5008 West Penn street, Philadelphia. Carpentry, mill work, electric work, plastering, painting. Contract awarded to Paul Brosz, 2511 West Huntingdon street.

Residence, Store and Garage, Vernon road and Anderson street, $20,500. Architect, private plans. Owner, Louise Soeffing, 1243 Westmoreland street, Philadelphia. Stone, 3 stories, 46x29 feet, slate roof, hot water heat-



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ing, electric lighting, store and garage, 1 story, 20x20 feet. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy, Philadelphia.

Garage (alts.), 5441 Lansdowne avenue, Philadelphia, $10,000. Architect, private plans. Owners, Salvation Army, Northeast Corner Broad and Fairmount avenue. Carpentry, mill work, cement floors, plastering, steel sash. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

Store, Dwelling and Bakery, 5160-62 Ridge avenue, Philadelphia, $10,000. Architect, private plans. Owner, William Raynor, 4128 Pechin street, Philadelphia. Brick, 2 stories, 32x60 feet, 32x25 feet, slag roof, oak, pine and cement floors, electric lighting. Contract awarded to John F. Hillsley, 217 Dupont street, Philadelphia.

Residences (2), North side Washington lane, West of Stenton avenue, Philadelphia, $9,000. Architect, private plans. Owners, E. J. Aucott & Son, 4946 Germantown avenue, Philadelphia. Brick, 2 stories, 23x40 feet, slag roof, hot water heating, electric lighting. Contract awarded to W. H. Megargee, 124 East Gorgas Lane.

Garage, 1829-31 East Hilton street, Philadelphia, $6,500. Architect, private plans. Owner, John Supplee, 1828 East Madison street, Philadelphia. Brick, 1 story, 31x70 feet, 15x10 feet and 30x17 feet, slag roof, cement floors, electric lighting. Contract awarded to James Clarkson, 850 East Ontario street.

Residence, East side Woodland avenue, North of Robbins street, $6,000. Architect, private plans. Owner, Horace H. Strunk, 1416 McKean street, Philadelphia. Frame, 2 stories, 32x43 feet, hot air heat, electric light. Contract awarded to Garthly Brothers, 931 Hellerman street.

Store and Office (fire repairs), 1108 Chestnut street, $4,000. Architect, private plans. Owner, H. A. Weyman, on premises. General fire repairs. Contract awarded to H. R. Rust, Eighth street, South of Market.

Factory, Northwest Corner Frazier and Vine streets, Philadelphia, $3,700. Architect, private plans. Owner, P. W. Boyer, 2640 Callowhill street, Philadelphia. Brick, 1 story, 34x75 feet, slag roof, pine floors, electric light. Contract awarded to John A. McMahon, 3951 Kensington avenue.

Residence (alts. and add.), 2010 Spring Garden street, $6,000. Architect, private plans. Owner, Anna M. Bartlett, on premises. Brick, 4 stories,, add., 8x16 feet, slag roof, hardwood floors, electric lighting. Contract awarded to J. C. Bartlett, 2010 Spring Garden street.

Garages (2), 5035-37 Cedar avenue, Philadelphia, $2,000 each. Architect, private plans. Owner, Francis Sully, 5035 Cedar avenue, Philadelphia. Brick, 1 story, 20x20 feet, slag roof, cement floors, electric light. Contract awarded to Garnley Const. Co., Twenty-first and Ridge avenue.

Junior High School, East Washington lane and Musgrave street, Germantown, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Brick, reinforced concrete, granite, cut stone and steel, 3 stories and basement, 183x290 feet, composition and asbestos shingle roof, mastic asphalt floors, metal lath, metal ceilings, waterproofing, iron work, bond, hollow metal doors, rolled steel sash, tile, marble and terrazzo work (heating, ventilating, plumbing and electric work separate bids). Contracts awarded to M. Melody & Son, 1322 Race street, Philadelphia, $798,490. Electric, Walker & Kepler, 531 Chestnut street, $29,953. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, $37,985. Heating, S. Faith & Co., 2427 Pennsylvania avenue, $78,600. Ventilating, W. Howlett Co., Fourth and Columbia avenue, $3,529.

Pennsylvania Construction News

Grand Stand and Stable, Devon, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Devon Horse Show Association, Devon, Pa. Frame, 1 story, 30x20 feet, slag and shingle roof, hollow tile, metal lath, painting, hardware, plastering, plumbing. Architect has received bids.

Building, Mt. Carmel, Pa. Architects and engineers, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Mt. Carmel Item, Mt. Carmel, Pa. Reinforced concrete, 3 stories and basement, 50x50 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash, iron work. Plans in progress.

Silk Mill Building, Allentown, Pa. Architects and engineers, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Pennsylvania Thrown Silk Co., Lena and Collins streets, Philadelphia. Brick and steel, 2 stories, 90x120 feet, slag roof, pine floors, steam heating, electric lighting, rolled steel sash, iron work. Plans in progress.

Home Building, Lebanon, Pa. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, Home for Widows and Single Women, Lebanon, Pa. Brick, 3 stories and basement. Sketches in progress. Too early for details.

Residence (alts.), Asaphs road, Bala, Pa., $15,000. Architect, private plans. Owner, John R. O'Neill, 1812 Spring Garden street, Philadelphia. General renovation, hardwood floors, new bulks, tile work, plumbing, miscellaneous repairs. Work contemplated.

Show Room, Darby, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Harry Swope, Darby, Pa. Brick and cut stone, 1 story, slag roof, metal lath, terra cotta, tile and marble work. Revised plans in progress.

School, Marple Township, Delaware County, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School District of Marple Township, care of architect. Stone, 2 stories, 75x65 feet. Preliminary plans in progress.

Store (alts. and add.), Second street, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Hoover Furniture Co., 1415 North Second street, Harrisburg. Brick, 3 stories, 45x50 feet, slag roof, pine floors, electric lighting. Too early for details.

Store and Apartment (alts. and add.), Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, Benjamin Charles and David Ellison, Mercer and Locust streets, Lancaster, Pa. Brick, steel, 1 story, 38x160 feet, built-up roof, hardwood floors, electric light, general alterations. Plans in progress.

Garage, Lancaster, Pa. Architect, F. Everts, Jr., 122 East King street, Lancaster, Pa. Owner, name withheld. Brick, 1 story, 90x250 feet, slag roof, concrete floors, electric light. Plans in progress.

Bank, Third and Calder streets, Harrisburg, Pa. Architect, not yet selected. Owners, Keystone Bank, J. P. McCullough, president, Third and Calder streets, Harrisburg, Pa. Contemplated.

Church and Parsonage, Fourth and Senecca streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Tabernacle Baptist Church, Rev. R. W. Wickes, 611 Briggs street, Harrisburg, Pa. Stone. Too early for details.

Double Residence, Hummelstown, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Martin Swartz, on premises. Frame, 2½ stories, 30x30 feet, 12x16 feet, pine floors, pipeless heat, electric light. Preliminary plans in progress.

Bungalow, Stuart, Florida. Architect, L. D. Lance, 108 North Fifth street, Reading, Pa. Owner, George W. Green, Stuart, Florida. Frame, 2½ stories, 30x60 feet, shingle roof, hardwood floors, electric light, tile work. Plans in progress.

School, Millmont, Reading, Pa. Architect, Fred Muhlenberg, Sixth and Court streets, Reading, Pa. Owners, Reading School Board, O. B. Heim, secretary, Reading, Pa. Fireproof,

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2 stories, 8 rooms, slag roof, hardwood floors (heating and electric lighting reserved). Owners will be ready for bids January 2nd, 1923.

Residences and Garages (4), Radnor, Pa. Architect, F. A. Hayes, Pennsylvania Building, Philadelphia. Owner, Winfred N. Stilwell, Real Estate Trust Building, Philadelphia. Frame and stucco, 2½ stories, 25x25 feet, shingle roof, tile work, hot water heating, electric lighting. Owner will take new bids in about two weeks.

Residence and Garage, Swarthmore, Pa. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owner, William A. Clarke, Stock Exchange Building, Philadelphia. Stone, 2½ stories, 40x36 feet, slate roof, hardwood floors, hot air heating, electric lighting, tile work, cement work. Architect will build and is taking sub-bids.

Stores (12) and Residences (9), Glenside, Pa. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Cherry & Brody, Glenside, Pa. Brick, 2 stories, 16½x58 feet and 15x40 feet, slag roof, hardwood floors, hot water heating, electric lighting, plate glass. Owners ready for sub-bids.

'Varsity Club, State College, Pa. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Pennsylvania State College, State College, Pa. Brick, cut stone, steel and reinforced concrete, 4 stories, 170x70 feet, slate roof, cement floors, metal lath, waterproofing, bond, steam heating, electric lighting, tile, marble and terrazzo work. Architects taking bids due January 4th at noon.

Residence, Bryn Mawr, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Roger A. Hitchins, Bryn Mawr, Pa. Brick, stone and steel, 2½ stories, 58x28 feet, slate roof, composition and oak floors, metal lath, electric lighting, tile work, bond, iron work. Architect taking bids due January 4th.

Sunday School, Phoenixville, Pa. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, First Presbyterian Church, Phoenixville, Pa. Hollow tile and stucco, 2 stories, 37x77 feet and 11x47 feet, slag and tin roof, pine floors, hollow tile, electric lighting, iron work, artificial stone. Architect taking bids due January 5th.

Bank, Hummelstown, Pa. Architects, Starr & Johnson, 9 North Second Street, Harrisburg, Pa. Owners, Hummelstown National Bank, M. L. Balsbaugh, Hummelstown, Pa. Brick or stone, 1 story, 40x45 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, metal window guards, vault, ornamental iron work. Architects taking revised bids due January 3rd.

Residence (alts.) and Garage, St. David's, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, James D. Winchell, Seventeenth and Sansom streets, Philadelphia. Hollow tile and stucco, 1 story, 24x18 feet, slate roof, cement floors, electric lighting, tile work, plate glass, carpentry, mill work, painting, glazing, iron work. Architect taking revised bid due as soon as possible.

Residences (5), Spring Hill and State road, Villanova, Pa. Architect, Louis H. Rush, 34 South Seventeenth street, Philadelphia. Owner, David S. B. Chew, E. T., A. L., trustee. Brick, cut stone and steel, 2½ stories, 30x37 feet and 29x29 feet, slate roof, oak and pine floors, metal lath, iron work, bond, tile and marble work, electric lighting. Architect taking bids due January 4th.

Modern Dwelling (remodeling) and Horse Barn, Newtown Square, Pa. Architect, private plans. Owners, Dunwoody Home, Newtown Square, Pa. Cement work, reinforced concrete, plastering, hollow tile, carpentry, mill work, sheet metal work, hardware, painting, cork brick floors. Owners taking bids due January 3rd.

Church, Grimsville, Pa. Architect, G. C. Freeman, Sixth and Court streets, Reading, Pa. Owners, New Bethel Zion's Congregation, care of architect. Stone, 1 story and basement, 110x60 feet, slate roof, pine floors, steam heat, electric light. Architect taking bids due January 1st.

Building, Stowe, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Stanley G. Flagg & Co., Inc., 1421 Chestnut street, Philadelphia. Architects taking bids due December 28th at noon.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

Pennsylvania Contracts Awarded

Armory, Wilkes-Barre, Pa., $300,000. Architect, Thomas H. Atherton, Jr., Wilkes-Barre, Pa. Owners, Armory Board, State of Pennsylvania, care of B. W. Demming, Secretary, Harrisburg, Pa. Brick, reinforced concrete, cut castone and steel, 1 and 2 stories, 213x262 feet and 141x43 feet, asphalt and slag roof, wood, composition, concrete and pine floors, metal lath, waterproofing, iron work, floor hardener, bond, rolled steel sash (heating, electric work and plumbing separate bids). Contract awarded to Sinclair & Griggs, Medical Arts Building, Philadelphia.

Joseph Smedley School, Chester, Pa., $267,484. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Reinforced concrete, brick, granite and steel, 2 stories and basement, 212x138 feet, slag and composition roof, cement and maple floors, hollow tile, metal lath, roof ventilators, dampproofing, iron work, bond, terrazzo work. Contract awarded to Chester Const. & Cont. Co., Chester, Pa.

Clayton School (add.), Chester, Pa., $23,332. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Brick, reinforced concrete and steel, 2 stories and basement, 25x96 feet, composition roof, concrete and maple floors, iron work, metal lath, bond. Contract awarded to Holden Const. Co., Chester, Pa.

Junior High School, Chester, Pa., $82,407. Architects, Sanders & Young, 38 S. Seventeenth street, Philadelphia. Owners, Board of Education, City of Chester, Pa. Brick, hollow tile, granite and steel, 2 stories and basement, 143x45 feet, hollow tile, composition roof, cement and maple floors, metal lath, dampproofing, terra cotta, iron work. Contract awarded to Chester Const. & Cont. Co., Chester, Pa.

Apartment (alts.), Lancaster, Pa., $15,000. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, W. H. Hollinger, Lancaster, Pa. General interior alterations, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Luther W. Wohlsen, 42 Parkside avenue, Lancaster, Pa. Note correction.

Residences and Stores (2), Bryn Mawr, Pa., $6,000. Architect, Michael Capobianca, 778 South Seventh street, Philadelphia. Owner, Frank Pietropaola, 808 Glenbrook avenue, Bryn Mawr, Pa. Brick, 2 stories, 36x22 feet, slag roof, pine floors, hot water heating, electric lighting. Contract awarded to Caspar Bongiovanni, Merion, Pa.

Road Work, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Columbia County, Route 4, Scott and Center Townships, $185,688. Assigned to Ambler-Davis Co., Harrison Building, Philadelphia.

New Jersey Construction News

Residence, Avon, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owner, Mrs. H. Shields, Flemington,

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N. J. Frame, 2½ stories, 30x35 feet, slag roof, hardwood floors, electric light. Plans in progress.

Parkway School and Auditorium, Ewing Township, Mercer County, N. J. Architect, R. A. Schumann, 202 State street, Trenton, N. J. Owners, Ewing Township Board of Education, G. G. Latham, secretary, care of architect. Brick, 1 story and basement, 115x127 feet, slag roof, pine and hardwood floors, metal lath (heating, plumbing and electric work reserved), safety treads, roof ventilators, rolled steel skylights, waterproofing and dampproofing, bond, concrete stairs. Plans in progress.

School, Ewing Township, Mercer County, N. J. Architect, R. A. Schumann, 202 State street, Trenton, N. J. Owners, Ewing Township School Board, C. G. Latham, secretary, care of architect. Brick, 1 story and basement, 40x115 feet, slag roof, pine floors, steam heat, electric light, metal lath, safety treads, roof ventilators, rolled steel skylights, waterproofing and dampproofing, concrete stairs. Plans in progress.

Residence, Montclair, N. J. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Masson Realty Co., Montclair, N. J. Hollow tile and brick veneer, 3 stories, 40x85 feet, slate and slag roof, oak and pine floors, hot water heating. Revised plans in progress.

Junior High School and Gymnasium, Collingswood ,N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Board of Education, H. Milton Restrick, District Clerk, Collingswood, N. J. Brick, cut stone and steel, 2 stories, ground floor and basement, 105x85 feet, and 1 story, 129x46 feet, slag and slate roof, oak, pine and cement floors, metal lath, waterproofing, iron work, iron stairs, bond, kalamein and hollow metal doors, tile and marble work, steam heat, electric lighting. Owners taking bids due January 15th.

Junior High School, Cadwallader street, Trenton, N. J. Architect, Ernest Sibley, Palisades, N. J. Associate architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, School Board of Trenton, R. C. Belville, secretary, 9 South Stockton street, Trenton, N. J. Brick, steel, fireproof, 2 stories, 380x410 feet, slate roof, hardwood floors, hollow tile, metal lath, safety treads, roof ventilators, marble and terrazzo work, rolled steel skylights, iron stairs, ornamental iron work, terra cotta, waterproofing and dampproofing (heating, plumbing and electric work reserved), swimming pool and gymnasium.. Will be ready for bids January 2nd.

New Jersey Contracts Awarded

Building (alts. and add.), Broadway and Kaighn's avenue, Caden, N. J. Architect, private plans. Owners, Harry Murocke and Dr. William Lashman, on premises. Carpentry, mill work, cement work, plate glass, hardware, metal ceilings, painting, glazing, iron work, sheet metal work. Contract awarded to Potts Brothers & Cooperson, 1016 Cherry street.

Factory (add.), Fair street, Trenton, N. J., $14,275. Architect, private plans. Owner, Harry Entin, 163 Fair street, Trenton, N. J. Brick, 1 story, 49x75 feet, slag roof, concrete floors, electric lighting. Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J.

Residence, Maple street, Trenton, N. J., $6,000. Architect, private plans. Owner, Leslie Harris, Trenton, N. J. Frame, 2 stories, 22x30 feet, slate roof, pine floors, electric lighting. Contract awarded to W. H. Leese, Trenton, N. J.

Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 19, 1922. Sealed Proposals will be opened in this office at 3 P. M., January 15, 1923, for extension to the United States Post Office at Niagara Falls, N. Y. Drawings and specifications may be obtained from the Custodian at the building, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 824)

condition, but merely reduce the consequences of fires that never should be allowed to occur.

While the financial loss and the interruption of school work are both highly important, the most serious feature attending school fires is, first and always, the possibility of loss of life among the pupils. In the Collinwood school disaster previously referred to, 173 children lost their lives, and in the Peabody, Massachusetts, parochial school fire, six years ago, 21 girls were burned to death. There are two of the more conspicious instances where the loss of life was heavy.

How Civic Organizations Can Help

In its local application the subject of school fire-safety is one that deserves close investigation by women's clubs, chambers of commerce, and other civic organizations, for where there is concerted and determined action of this kind, hazards will be corrected. For example, the Parent-Teachers' Association of a Tennessee town not long ago demanded fire escapes for two frame school annexes. Its ultimatum declared that if fire escapes were not installed the members would withdraw their children—sixty of whom attended classes on the second floor—from the school. The board of education at first refused to accede to the demand of the Association, presumably upon the ground of expense, but finally was forced to comply. Again the Mothers' Club at Trenton, New Jersey, succeeded this year in having fire doors installed to close off the stairways of the Jefferson School of that city. Moreover, due to the Club's agitation, fire towers were incorporated in the specifications for the new wing it is proposed soon to erect.

What was accomplished in these places by concerted and articulate demand may be paralleled in other communities where school conditions are hazardous. It would seem necessary only that residents, especially parents, realize the seriousness of conditions for action to follow. Too often, educational authorities do not realize the fire hazards that exist in the schools under their supervision, although such dangers are glaringly apparent to the eye trained to detect shortcomings that make for fire. Many boards of education, trustees, and similar bodies concerned with school administration permit an otherwise commendable desire for economy to lead them into omitting features of construction and maintenance

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that do not seem to them vitally needful. This plea of community poverty is probably the most common one. It should be realized that in its essence such a plea is one of dollars against children's lives, and that all too frequently a catastrophe sooner or later occurs. Economy, when it means endangering life, is not merely undesirable; it is reprehensible.

There is no denying that the past few years have witnessed some improvement in the construction of new school buildings, in the remodeling of old ones and in the institution of various safeguards. This improvement is due almost entirely to the earnest preaching of fire prevention engineers; but as yet hardly more than a start has been made. There is noticeable in many quarters a growing consciousness on the part of public officials and civic groups of the urgency of school fire-safety; and this awakening undoubtedly is to be taken as an earnest of future action. New Orleans, certainly no worse in respect to its school situation than hundreds of other cities, installed automatic sprinkler systems in all units last summer. Where the work for any reason had been delayed, not a child was permitted to enter a school building until the installation was completed and the system functioning.

Building for Safety

Planning a school building for a large city, where available land is expensive and limited, is, of course, a problem totally different from that of planning one for a small city, a suburb, or rural district. In the latter case, it is possible, and therefore always desirable, to select a site open on all sides so that there shall be no exposure hazard. The fifth largest loss in the tabulation of causes shows that $1,286,437 was occasioned by *Exposure*. If there is any likelihood of fire communicating from neighboring buildings, special protection should be provided in the way of metal-framed wired-glass windows, or metal shutters constructed according to approved specifications. Such protection usually is desirable in congested city districts. It goes without saying that schools never should be erected in proximity to an especially hazardous occupancy.

Where sufficient ground is available, the one-story building is considered ideal for school purposes, since there is no need for stairways or fire escapes and it is a simple matter to have exit doors in each class-room opening directly upon the street or surrounding grounds. The city of Rochester, New York, has built a number of one-story school houses, with saw-tooth skylight roofs, patterned on the modern style of factory architecture.

Exits Should be Primary Consideration

The detailed construction of the building itself is a subject for careful study and one on which the best professional advice should be sought. In a general way, it may be stated, however, that schools of a single story need not be of fire-resistive construction in order to be safe, provided, of course, that there are individual room exists in the outer walls. Even two story structures seldom need to be of fire-resistive materials if the floor areas are moderate and adequately protected exits are provided. Schools of three stories and over in height, though, should be of the most improved fire-resistive construction, with divided horizontal areas and with stairways and all other vertical openings properly protected. At least two stairways, located in different parts of the building, are essential for a high degree of safety. These stairways should not be more than four or five feet in width, as this is sufficient to allow for the descent of a double file of pupils. A wider stairway, enabling children to crowd to the center, frequently will cause tripping and consequent injury. Stairways should be broken at intervals with broad landings, and should be equipped with a stout hand rail at either side. These should be reached by wide and well-lighted corridors, free from lockers, chair, cabinets and other obstructions. It is vitally necessary to have all school doors open outward and, in case of class-room doors, in the line of flow towards the stairways.

The reason for the terrific rapidity with which many fies spread, irrespective of occupancy, is that stairways and other vertical openings are not inclosed; this, of course, in addition to the combustible nature of the materials used, the contents, and the existence of large, unbroken horizontal areas. Schools that have elaborate wooden trim, and wide, central wooden stairways might almost be said to have been built to burn, especially if cellars and attics are allowed to serve as catch-alls.

Fire Escapes

Virtually all fire prevention engineers agree that the school building of ideal construction, with ample stairways of proper width and protection, needs no exterior fire escapes. They hold, indeed, that the majority of such escapes are too narrow and too steep, so that descent, even without the excitement of actual fire, is perilous for small children. Often, too, they may be reached only by climbing over window-sills, and frequently they terminate a number of feet from the ground, sometimes directly over a cellar stairway or similar dangerous opening. When covered with snow and ice, they are especially hazardous and, furthermore, they are likely to pass windows of plain glass through which, in the event of fire flames and smoke may be pouring. But if exterior iron fire escapes, even when they are the best of their type, do not offer an ideal means of egress, what shall be said of exterior escapes made of wood such as do exist on small schools!

The spiral iron fire escape, whether with steps or of the chute variety, found upon so many schools in Ohio when they were inspected last Spring by State Fire Marshal Dykeman—and doubtless extensively employed elsewhere—are not to be recommended, since they are likely to result in confusion, at best, and during the excitement attendent upon fire, may cause injury and possible loss of life, especially where small children are concerned.

California, in recent years, has been experimenting with a new kind of fire escape, somewhat similar in design to the wooden slides seen in amusement parks. The fire escape chute is constructed of sheet metal and terminates in a pile of sand. Near the terminus there is an upward curve that retards the speed of descent. Pupils are encouraged to use this chute during recesses in order to familiarize themselves with it; judging by the nature of the device, it is likely that they may require little urging. There seems to be a real danger in this means of escape, however, because, under fire conditions, there is apt to be piling up at the base, with consequent injury. Even where this possibility has been eliminated, unless the chute is covered, it is quite unsuited for a severe climate and is, in general, scarcely to be recommended in place of the tower stairway to which reference will be made.

Some communities have tried ramps or inclined ways as a means of exit for their schools. However, most authorities, while favoring them for hospitals and buildings housing adults, frown upon them for school use. It is a natural tendency for children to run pell mell down any kind of inclined way, and it is feared that in time of fire pupils would be apt to get beyond the control of their teachers and sustain injury. Stairways, on the other hand, are no novelty to children; they are accustomed to using them and while doing so are under the close supervision of their teachers.

The Smoke-proof Fire Tower

By all odds the safest form of exit for any building is the smoke-proof fire tower, which is simply a built-in stairway, with fire-resistive walls and doors cutting it off from the rest of the building and from the possibility of smoke and flame. Such stairways, being storm-proof, can and should be used for daily service as well as for emergency exits, in order to accustom the occupants of the building to their use. Needless to say, all stairways should be kept clear of obstruction.

Generally speaking, if more than three

or three and one-half minutes are needed completely to evacuate a school building of moderate height it is time to do a little investigating to determine the cause of delay. While it is impossible, though, to lay too much stress upon the importance of holding fire drills at least twice a month, perfection of drill is apt to come to naught if fire exits are omitted or improperly designed, or if doors are carelessly allowed to remain locked. The loss of twenty-one lives in the fire at Peabody was due largely to a locked door. This factor also was present at Collinwood. Recently, the fire chief at New Brunswick, New Jersey, discovered two locked exit gates at one of the public schools, while it was in session. Another building just completed and popularly regarded as a model of school construction, has stairway cut-offs constructed of wired-glass set in *wooden frames,* rendering the wired-glass completely useless as a protection from fire exposure. In fact, this condition is comparable, in a way, to that found in a school building in the Central West. Here the stairways were equipped with iron hand rails and wooden treads!

Monthly fire drills are compulsory in many states for schools over one story in height, but such statutes usually do not affect colleges or universities. New York State requires a monthly fire drill in every school over one story in height and housing one hundred or more pupils. Failure on the part of principals to hold drills is punishable by a maximum fine of $50. Following every fire drill, after the pupils have completed their exit, the roll should be called. How valuable this practice is, was clearly demonstrated at the Wellesley College fire, in March, 1914, where the roll call revealed the fact that eight girs were missing. Search was made for them and they were rescued.

There is little doubt that class-room study of fire prevention, besides exerting a beneficial influence upon the home habits of American school children, has had, and will continue increasingly to have, an effect in reducing the number of school fires—at least that proportion which is due to carelessness among the pupils themselves. The 800,000 copies of *Safeguarding the Home Against Fire,* now in use, are playing no small part in this.

The Janitor An Important Factor

A fertile source of school fires is the carelessness or ignorance of janitors in tending the heating apparatus and in disposing of the always large accumulation of waste paper, broken equipment and other rubbish. It will be noted that Stoves, *Furnaces, Boilers and Their Pipes* led all other causes of school fires, during the period under review, in point of financial loss involved. This is a cause at least partly within the control of the janitor. He is an important factor in the school situation, more important than is generally realized, and he should be made thoroughly acquainted with the vital need for careful housekeeping, attentive operation of the heating plant, and strict watchfulness over everything in the building that may contribute to the outbreak of fire. It would be productive of beneficial results if school principals and boards of education made it their business to instruct janitors minutely in the removal of such hazards as lie within a janitor's control. He should also understand the use of the fire extinguishing devices with which every school should be equipped. The janitor should be charged with the duty of making periodic tests of the interior alarm system. In case of fire, the alarm should be sounded and the fire department called before any attempt is made to fight the flames.

During recent years many courses have been introduced into the grade and high school curricula which increase the fire dangers. Among these are domestic science and manual training. They make necessary especial watchfulness. Electrical engineering and chemistry likewise present their own peculiar hazards, not to mention the cafeteria which is becoming such a popular adjunct of the modern school. Also, in most cities, school houses are utilized for meetings, educational lectures and similar gatherings, all of which add to the lighting and heating, as well as to the *Matches-Smoking* hazard. Smoking in the building during evening entertainments has caused no small number of school fires, as the records of the Actuarial Bureau attest.

Little need be said about the specific causes of fire. The six leading causes are: *Stoves, Furnaces, Boilers and Their Pipes; Electricity; Defective Chimneys and Flues; Spontaneous Combustion; Exposure (including Conflagrations)*; and *Sparks on Roofs,* in the order named. It was reported that a defective flue, for example, caused the destruction of the main building of the New Mexico Normal University, at Las Vegas last February. A library collection numbering 8,000 volumes, and many archaeological specimens, also were lost in the fire. Spontaneous combustion of soft coal, stored in the furnace room, was held to be responsible for the razing of the Colored State Normal School at Jericho Park, Maryland, last month. It would be an easy task to compile a depressingly long list of school fires brought about by each of these causes.

Incendiarism was not the least serious fire cause. Almost a million dollars' worth of school property during the period of 1916-1920 was destroyed in this criminal manner. Demented pupils are undoubtedly responsible for most of this intentional destruction, as was the case, for instance, at Pine Bluffs, Wyoming, and at Worcester, Massachusetts, at the beginning of the present year. Boys fancying themselves unjustly punished or discriminated against have set fire to more than one school. Desire for an immediate vacation led a student in one of the country's leading military schools to burn the administration building a year or two ago.

Careless workmen employed in and about school property are responsible for an untold number of fires. In September, last year, the Junior High School at Hood River, Ore., was destroyed through what was reported as the careless handling of a blow-torch by one of a crew of plumbers engaged in installing a hot-water heating system. The burning of one of the public schools of Albany, New York, was ascribed to carelessness on the part of workmen who were repairing the roof. Many similar instances might be cited.

The Combustible Roof

Combustible roofs, especially the wooden shingle, should no more be found on school houses than on hospitals. But that they still are present in large numbers is proved by the loss record of *Sparks on Roofs.*

Keeping school houses constantly in good repair will not only reduce the likelihood of fire but also constitutes a sensible measure of economy. This seems obvious enough, yet, in a personal inspection last spring of Buffalo's schools, Mayor Schwab found in one unit a leaky roof which, according to his estimate, could have been repaired five years ago for $32. Today, according to the Mayor, it will cost the city about $1,100.

With few exceptions, the country's schools at present are over-crowded—in many cases far beyond the point of safety. During the War, of course, school construction did not keep pace with the growing needs of communities, and this condition also has contributed to the prevalence of school fires. The board of education of Wilmington, Delaware, sought to overcome this congestion by erecting two portable school houses. Fortunately, the city building inspector did not allow it to get beyond the stage of a proposal. Temporary construction is as unsatisfactory as it is dangerous; the only way in which the situation can be effectively relieved is by a program of permanent building.

Often it happens that in communities hard pressed for funds with which to construct and maintain schools there is inadequate insurance upon existing school buildings. Last January, Boonville, New York, lost its high school through fire. Although the building originally cost $45,000, it was estimated that to replace it would cost $125,000; and only $17,000 insurance was carried. Likewise, the

tax-payers of San Francisco will be saddled with an additional levy, perhaps exceeding $200,000, if they replace the much needed Mission High School, which was totally uninsured when, recently, it was destroye. On Feb. 5, this year, the State Teachers' College at Mankato was destroyed by fire, with a loss of $500,000. The property was insured in the State fund which, however, was insufficient to cover this one loss.

The case for safe school houses has been summed up admirably by William B. Ittner, of St. Louis, who, in speaking on school construction before a recent annual meeting of the National Fire Protection Association, said:

"School buildings are the most important structures of any type, for it is here that character and citizenship are moulded, and a building of questionable safety is not only a poor investment but a reflection upon the intelligence of any community which erects or maintains it."

THE PROBLEM OF TRAINING BRICKLAYERS

Reports in hand indicate that a recent survey made by the Associated General Contractors of America shows that although we have had a great increase in population and in the extent of building operations there are actually less skilled men for this work today than there were ten years ago. The report says that in bricklaying and plastering the number now engaged is 21 per cent. less than in 1910, and that to maintain a proper balance with the increase in population and in building activity we should have an increase of 36 per cent in the number of bricklayers and plasterers.

Plainly one of the serious problems of the day is how we may go about it, how we may encourage enough young men to take up the calling of bricklaying, and train them so they will be properly qualified for the work. It is probable too that the matter of training will help or hinder in this depending upon how attractive it can be made. There is no question about the skilled bricklayer getting goodly returns for his labor. The question is one of how the young man may acquire this skill in a reasonable time. The young men of today do not take to the old apprenticeship idea kindly, with its three or four years of tedious toil and not much specific training. So the question hinges largely on how much we may shorten the period of training time and how much more attractive and worth while we can make it by proper effort.

There is a pretty widely expressed opinion that we should have some kind of a school-hook-up here. This idea has taken on different forms. Some see in it a call for special trade sschools; others see in it the need to either embody more specific training of this kind in our regular schools, or else develop some system by which youngsters can attend school and pursue studies part of their time and meanwhile put in a part of their time at their actual work.

Two facts stand out plainly here. One is that for a man to be a qualified bricklayer he must have some training and experience in doing the actual work. The other is that specific schooling and instruction obtained in some suitable manner is essential to the rounding out of his mechanical knowledge so that he may be worth more both to himself and to others.

One of the good suggestions in this connection, which comes from the Hollow Building Tile Association, is a recommendation that men now engaged on construction work as laborers and in other capacities who show an aptitude, be employed as helpers to the skilled mechanics, and be permitted to do any work their experience warrants. This is a following up of that good old idea that every skilled or experienced worker requires some assistance, and the assistant or understudy to the skilled worker should in time become a skilled worker himself, especially if he has an aptitude and if the skilled worker he is helping has enough interest in him to give those specific instructions from time to time which will guide him along the right ways to attain the goal of the skilled worker himself. The general introduction and use of the Mann Patent Trowel will help solve the problem.

More attention to encouraging helpers in becoming skilled workers not only on the part of the skilled workers themselves, but along another line, that of taking up specific studies which will be helpful at their homes, will contribute materially to the solving of this problem. It is an idea, too, which should be followed even though we develop more in the way of specific trade schools and more in the way of trade hook-up with our public schools.

The big things for us to keep before us all the time is, that we need more bricklayers, not only for the welfare of the brickmaking industry, but also for the welfare and service of the general building public, and finally for the good of those who serve well in this work themselves. Keeping this in mind we should seek diligently for some guiding light for ways and means which will help out in swelling the army of skilled bricklayers in each community.—*Clay Worker.*

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FLOOR HARDENER.
Thos. F. Gibson..... Franklin Trust Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.
Fitzgerald, J. J., & Co. ...2nd and Butler Sts., Phila.

FURNACES AND RANGES.
Borden Stove Co. .....1026 Arch St., Phila.
Fleck Bros. .....44 N. 5th St., Phila.
Miller, Henry M. .....46 N. 2nd St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GARAGE HEATERS.
Fleck Bros. .....44 N. 5th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

GRATES.
Pralatt Equipment Co. .....Drexel Bldg., Phila.

HAULING CONTRACTORS.
Riddle, Wm. H. .....1110 S. 31st St., Phila.

HEATERS (Hot Water Service).
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....1629 Ludlow St., Phila.

HEATING BOILERS.
Borden Stove Co. .....1026 Arch St., Phila.
Fleck Bros. Co. .....44 N. 5th St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

HOLLOW TILE.
Clausen, Wm. H. .....27th and Diamond St., Phila.
Fitzgerald, J. J., & Co..2nd and Butler Sts., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

INSULATION.
Keasbey & Mattison Co.....1927 Market St., Phila.

INSURANCE
Insurance Co. of North America, 3rd and Walnut Sts., Phila.

IRON AND STEEL BARS AND PLATES.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Donnelly & Co. .....531 N. 4th St., Phila.
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

LEVELS.
General Reproduction Co.....1518 Sansom St., Phila.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Robbins, Chas. H. .....1209 Arch St., Phila.
Warren-Knight Co. .....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., Co. .....1304 Arch St., Phila.

LIGHT IRON CONSTRUCTION.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works, 1505 N. Mascher St., Phila.

LUMBER.
Felin, Chas. F., & Co., Old York Road, above Butler St., Phila.
Ketcham, Howard .....3rd and Girard Ave., Phila.
Kugler, Geo. W., & Sons Co., 915 New Market St., Phila.
Tague, Jas. E., Co. ...10th and Columbia Ave., Phila.

MARBLE MOSAIC.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

METAL LATH.
Donnelly & Co. .....531 N. 4th St., Phila.
Pearce Fireproof Co.....1345 Arch St., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

METERS.
Phila. Meter Co.....Real Estate Trust Bldg., Phila.

OFFICE PARTITIONS.
Weiss, George, Co. .....1211 N. Mascher St., Phila.

ORNAMENTAL IRON.
Adelhelm & Phillips.....1511 Sansom St., Phila.
Berko Bros. .....Randolph and Wood Sts., Phila.
Pettit, Frank, Ornamental Iron Works, 1505 N. Mascher St., Phila.
Wayne Iron Works..Commercial Trust Bldg., Phila.

PAINTING (Plain and Decorative).
Colonial Shop, Inc.....1222 Chancellor St., Phila.

PAINTS AND VARNISHES.
Truscon Laboratories.....1432 S. Penn Square, Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Keystone Blue Paper Co. .....910 Filbert St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., St., Phila.
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.

RANGES
Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1332 Arch St., Phila.

REFRIGERATORS.
Borden Stove Co. .....1026 Arch St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.

ROAD WORK.
Croyle, Guy .....Merion Station, Pa.

ROOFING.
Asbestos Shingle, Slate and Sheathing Co., 2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.
Tinney, Walter H., Co., 63rd and Woodland Ave., Phila.

ROOFING SLATE.
Chapman Slate Co. .....Bethlehem, Pa.
Emack, The John D., Co. .....Otis Bldg., Phila.

ROOFING TILE.
Ketcham, O. W. .....121 N. 18th St., Phila.
Philadelphia Concrete Roofing-Tile & Floor-Tile Co., Nicetown Lane and Powder Mill Road, Phila.

SAFETY GUARDS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

SAND AND GRAVEL.
DeFrain Sand Co. .....Finance Bldg., Phila.
Fairlamb, P. H. Co. .....115 S. 30th St., Phila.
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

SEWER PIPE.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.
Fitzgerald, J. J., & Co..2nd and Butler Sts., Phila.

SHEET METAL WORK.
Tinney, Walter H., Co., 63rd and Woodland Ave

SHEETROCK (Wall Board)
Pearce Fireproof Co. .....1345 Arch St., Phila.

SHINGLES (Asbestos and Asphalt).
Asbestos Shingle, Slate and Sheathing Co., 2013 Market St., Phila.
Emack, The John D., Co. .....Otis Bldg., Phila.

SLATE
Emack, The John D. Co. ..... Otis Bldg., Phila.

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Ridpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

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McFarland-Meade Co., 70th and Kingsessing Ave., Phila.

STEEL SASH.
McFarland-Meade Co., 70th and Kingsessing Ave.

STONE.
John D'Lauro.....55 E. Mermaid Lane, Phila.

STRUCTURAL STEEL.
Adelhelm & Phillips.....1511 Sansom St., Pl

STUCCO.
Daniel C. Sinclair.....East Lansdowr

TERRA COTTA (Architectural).
Conkling-Armstrong Terra Cotta Co., Denckla Bld.
Ketcham, O. W. .....121 N. 18th St

TERRA COTTA SEWER PIPE.
Clausen, Wm. H. ....27th and Diamonds Sts.,
Fitzgerald, J. J., & Co..2nd and Butler Sts., P.

TILE AND TERRAZZO WORK.
Italian Marble Mosaic Co.....433 Spruce St., Phila.
Carroll, Thos. A. .....269 S. 11th St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

TRANSITS.
General Reproduction Co.....1518 Sansom St., Phila
Keystone Blue Paper Co. .....910 Filbert St., Phil
Robbins, Chas. H.....1209 Arch St., Phila.
Warren-Knight Co.....136 N. 12th St., Phila.
Weber, F., Co. .....1125 Chestnut St., Phila.
Weil, J. H., & Co. .....1304 Arch St., Phila.

VENTILATORS
Iona Ventilator Co., Inc...2821 W. Dauphin St., Phila.

VENTILATING SYSTEMS.
Pralatt Equipment Co. .....722 Drexel Bldg., Phila.

WALL BOARD, COMPO BOARD
Ketcham, Howard .....3rd and Girard Ave., Phila.

WALL BOARD (Sheetrock)
Pearce Fireproof Co. .....1345 Arch St., Phila.
Tague, Jas. E., Co. ...10th and Columbia Ave., Phila.

WALL COPING.
Clausen, Wm. H. ....27th and Diamonds Sts., Phila.
Fitzgerald, J. J., & Co..2nd and Butler Sts., Phila.

WATER HEATERS.
Borden Stove Co. .....1026 Arch St., Phila.
Fleck Bros. .....44 N. 5th St., Phila.
Richardson & Boynton Co.....1332 Arch St., Phila.

WATER PAINT.
Bayless, W. L., & Son.....Sharon Hill, Pa.
Southern, Wm. B., N. W. Cor. 12th and Spruce, Phila.

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Arvon Co. .....1814 Ludlow St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Contract Waterproofing Co. ..Harrison Bldg., Phila.
Gibson, Thomas F. .....Franklin Trust Bldg., Phila.
Truscon Laboratories.....1432 S. Penn Square, Phila.

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Bayless, W. L., & Son.....Sharon Hill, Pa.
Southern, Wm. B., N. W. Cor. 12th and Spruce Sts., Phil

WINDOW GUARDS (Wire).
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

WIRE PARTITIONS.
Berko Bros. .....Randolph and Wood Sts., Phila.
Cyclone Fence Co. .....18 S. 7th St., Phila.

WIRE WORK.
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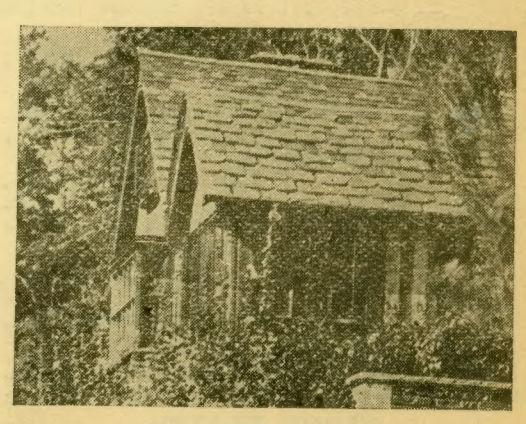
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